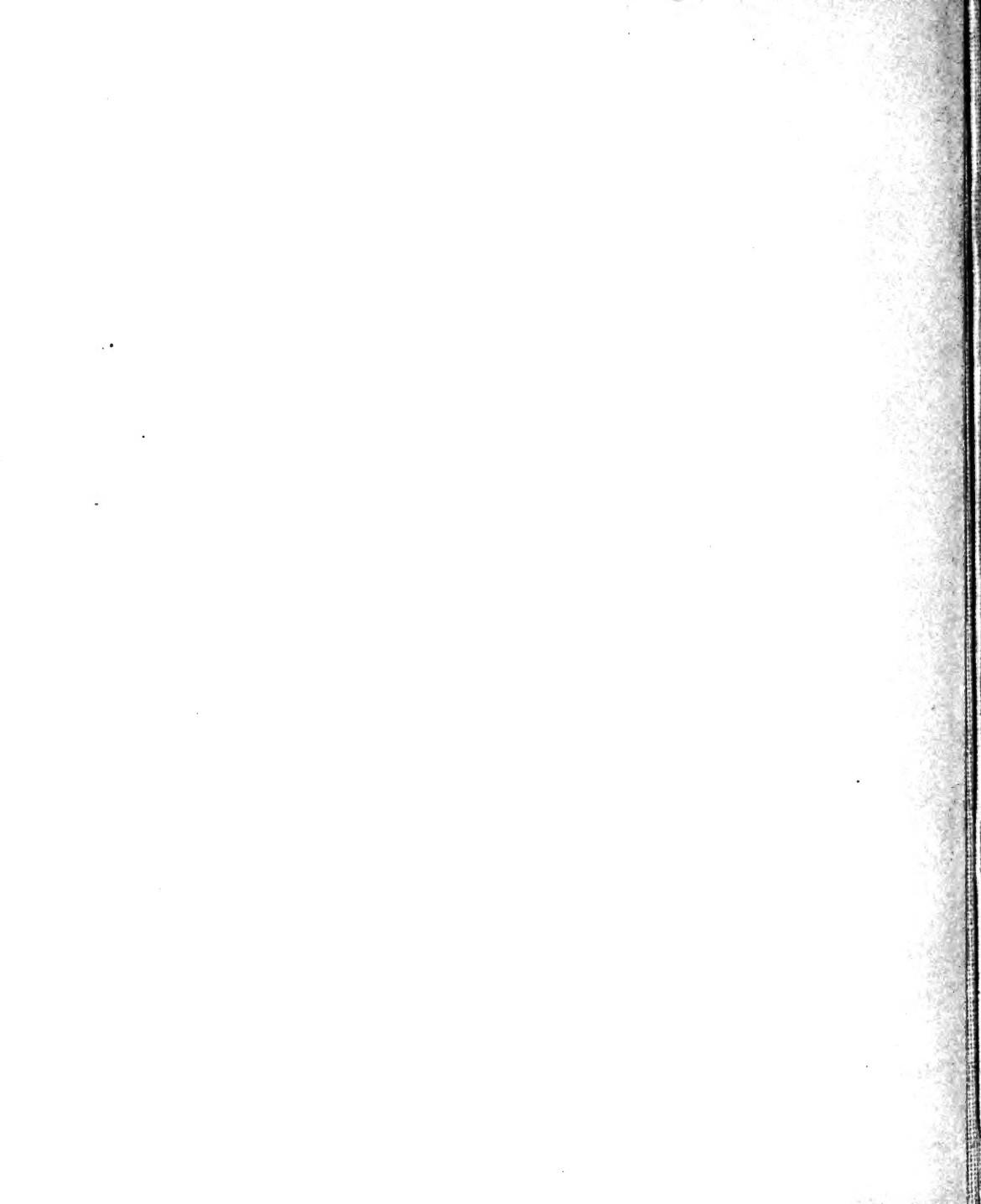




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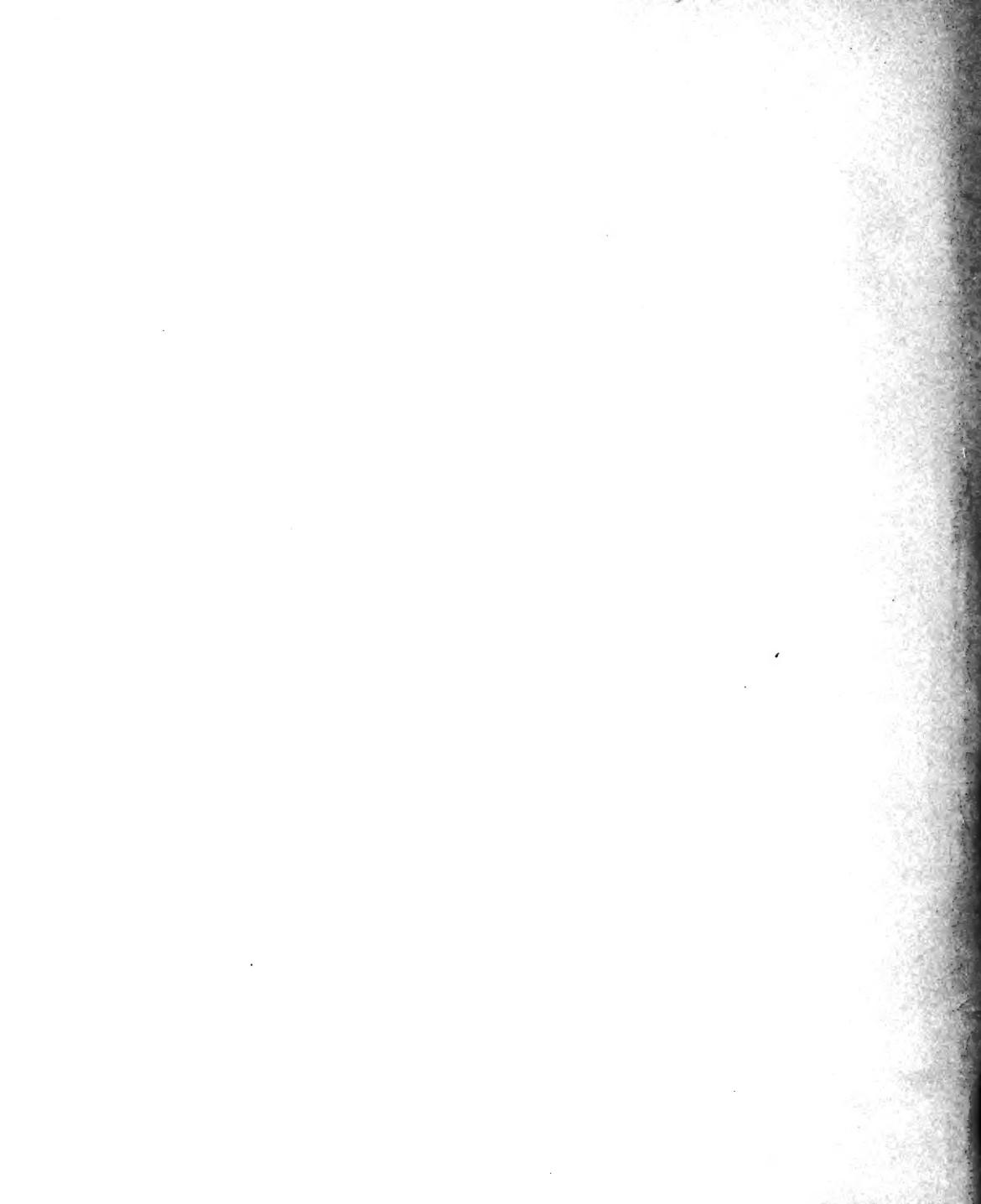
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The Flora of Banffshire

By

William Grant Craib, M.A.

Aberdeen

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PRESENTED, 2nd November 1911.

PAPER ON "THE FLORA OF BANFFSHIRE" BY
WILLIAM G. CRAIB, M.A.

Moved by the publication of the Flora of Buchan by Professor Trail, of Aberdeen University, by the very meagre information to be got for Banffshire from Professor Dickie's Botanist's Guide, and by the publication of two or three local lists in the Transactions of the Banffshire Field Club, its indefatigable secretary, Mr John Yeats, M.A., conceived the idea that by the systematic co-operation of botanists throughout the county it might be possible to collect such information regarding the distribution of plants in Banffshire as might be worthy of a place in the Club's Transactions. Being responsible for one of the local lists referred to, I was induced by the Secretary and by Mr Grant, the treasurer, to undertake the task with the aid of such botanists and collectors as might be available. Such is the origin of the following botanical survey of the County of Banff.

The area at first contemplated was not the rather artificial geographical area of the county, but the more natural region between the rivers Deveron and Spey, including these river basins. The lack of botanists, however, or more probably their modesty, led to the enforced curtailment of this wider scheme, and only Banffshire proper, with the addition of a few outside parishes on the banks of the rivers named, has been surveyed. The task, though thus restricted, has been no light one. Banffshire, with a seaboard of 32 miles, and a stretch inland in a south-westerly direction of 67 miles, reaching the high elevation of 4296 feet in Ben Mac Dhui, with many other mountains and mountain ranges scarcely inferior in height, bounded by two large rivers and intersected by numerous streams and rills, with all the variations in soil, climate, and rainfall that such a configuration implies affords a field for the botanist of great variety and extent.

The general plan of the work is the same as Professor Trail's Flora of Buchan, to which it may be looked upon as a companion, seeing that three parishes—Gamrie, King-Edward, and Turriff—occur in both, as does also that part of the parish of Alvah lying to the East of Deveron. All the records in the Flora of Buchan are based on Professor Trail's personal observations, but here, where there has been collaboration, the symbols employed are necessarily different, and may be thus explained :—

o denotes old records not verified during the progress of this work.

x . . . , records by Professor Trail.

! denotes records by myself.

Dry , that I have seen a dried specimen of the particular plant from that parish.

* , records by the following botanists in the parishes against their names :—

Cullen—Mr James Ritchie, M.A., B.Sc. (records extracted from Professor Trail's record books).

Fordyce and Boyndie—Mr G. D. Thomson, M.A., Kindrught.

Alvah—Miss J. A. Fraser, M.A., Linhead (collection made for the Dickie prize); Mr G. K. Fraser, M.A., Linhead.

Forglen—Mr Stuart, Gardener, Forglen House; Mr G. K. Fraser, M.A., Linhead.

Marnoch—Mr G. K. Fraser, M.A. (collection made for the Dickie prize).

Rothiemay—Miss Jeannie Geddes, M.A.

Cabragh—Mr J. S. Burns, M.A., and Mr J. Yeats, M.A.

Inveravon—Mr Watt, Jun., M.A., B.Sc., Knockando (collection made for the Dickie prize); and Mr Laurence Watt, Glasgow.

Aberlour—Mr John White, M.A., The Orphanage, Aberlour.

Kirkmichael—Mr James J. Burgess, M.A., Dyke.

Knockando—Mr C. Watt, Senr., M.A., Knockando.

Ordiquhill—Mr A. Donald, M.A., Ordiquhill Schoolhouse.

Keith—Mr Henry (collection made for Dickie prize, records extracted from Prof. Trail's record books), and Mr G. Petrie Hay, M.A.

Mortlach—Mr Laurence Watt, Glasgow.

To these botanists my best thanks are due for their painstaking work and able assistance. It is impossible here to specify or to attempt to gauge how much the work is indebted to Professor Trail for records in every parish, which he has very generously placed at my disposal. A glance at the tabular statements will at once show that without these records the Flora would have been much less complete.

I am deeply indebted to several other botanists for generous help in the determination of critical species. Mr W. Barclay, Perth, has not only very kindly named all the specimens of the genus *Rosa*, but, being well acquainted with Banffshire, he has also written up the distribution of that genus from his own personal observation and from specimens forwarded. The Rev. E. F. Linton has determined several consignments of *Hieracia*, chief among which may be mentioned a large collection from Gamrie, which yielded several novelties for

Banffshire. All specimens of the genus *Rubus* which were sent to me, or were collected by me, have been named by Rev. W. M. Rogers.

With regard to the recent lists in the Transactions of the Banffshire Field Club, viz., that of the Boyne district by Mr Thomson, Kindrught, and that of the Banff district by myself, these may be taken to be superseded by the present list. Mr Thomson has kindly forwarded to me notes giving several additions to his previous list, a few corrections, and full notes of the parishes in which the plants were found by him.

The Rev. Dr. W. S. Bruce, of Banff, has also contributed to the Transactions several papers dealing with the Flora of Banffshire; but, unfortunately, these papers are practically useless for the present work, owing either to the localities mentioned being too vague, or to the use of local names of the plants. He records *Carex incurva* and *Senebiera Coronopus* for Banff, and *Pyrola secunda* for Alvah, plants which I have been unable to find in the districts mentioned. There is still another published list dealing with part of the district under review: a list for the Parish of Cairnie, given in Pirie's "Parish of Cairnie" (1906). As this list contains several mistakes, I prefer to omit the records contained in it, and to rely on the records of Prof. Trail for that parish.

The most difficult, though most pleasant, duty remains, to express my heartfelt thanks, however inadequately, to Mr Yeats. To him, the originator and inspirer of this Flora, has fallen the arduous task of maintaining the correspondence with the local workers which such a work involves. This from the beginning of the enterprise he has most ungrudgingly performed, sparing neither valuable time nor advice.

With regard to the old records, it is matter of regret that space does not allow of a complete list, but below is appended a list of the old records cited. So far as possible only the earliest records are given, but as they have been extracted from various sources, and as all the original authorities have not been examined by me, it is possible that there may be mistakes and omissions.

The following is a list of the contractions used for the works cited:—

- B.G. ... Dickie's "Botanist's Guide."
- N.F. ... Dr Murray's "Northern Flora."
- S.A. ... "New Statistical Account of Scotland."
- F.B. ... Professor Trail's "Flora of Buchan," including the Supplement.
- Ed. ... Tom Edward (communicated by Professor Trail).
- M. ... Marshall and Shoolbred, Kirkmichael, Journ. Bot. 1906, pp. 154-161.

RANUNCULACEÆ.

- Thalictrum minus**, Linn.—Rathven, B.G.; Cullen, B.G.
Anemone nemorosa, Linn.—King Edward, S.A.; Turriff, F.B.
 A. *apennina*, Linn.—Rathven, S.A.
Ranunculus aquatilis, Linn.—King Edward, F.B.; Turriff, F.B.
 R. *fuitans*, Lam.—King Edward, F.B.
 R. *Lenormandi*, F. Schultz—Alvah, F.B.
 R. *hederaceus*, Linn.—Turriff, F.B.
 R. *sceleratus*, Linn.—Alvah, B.G.
 R. *Flammula*, Linn.—Turriff, F.B.
 b. *radicans*, Nolte—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
 R. *scoticus*, E. S. Marshall—Kirkmichael, M.
 R. *acris*, Linn., b. *Friesianus*, R. & F.—Turriff, F.B.
 c. *Boreanus*, (Jord.)—Turriff, F.B.
 e. *rectus*, (Jord.)—Turriff, F.B.
 R. *bulbosus*, Linn.—Rathven, B.G.; Alvah, B.G.; Turriff, Skene; Mortlach, B.G.
 R. *Ficaria*, Linn.—King Edward, F.B.; Turriff, F.B.
Caltha radicans, Forster—Kirkmichael, M.
Trollius europæus, Linn.—Alvah, B.G.

BERBERIDACEÆ.

- Berberis vulgaris**, Linn.—King Edward, F.B.

PAPAVERACEÆ.

- Papaver Rhœas**, Linn.—Alvah, F.B.
 P. *dubium*, Linn.—Grange, S.A.
Chelidonium majus, Linn.—Mortlach, B.G.

FUMARIACEÆ.

- Corydalis clavicornis**, DC.—Mortlach, B.G.
Fumaria capreolata, Linn.—Turriff, F.B.; Grange, S.A.
 F. *Bastardii*, Bor.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
 F. *officinalis*, Linn.—Turriff, F.B.; Grange, S.A.

CRUCIFERÆ.

- Barbara vulgaris**, Ait.—King Edward, F.B.
Arabis petræa, Linn., b. *hispida*, DC.—Kirkmichael, M.
Cardamine amara, Linn.—Turriff, F.B.; Mortlach, B.G.
 C. *pratensis*, Linn.—Turriff, F.B.
 b. *dentata*, (Schultes)—Kirkmichael, M.
 C. *hirsuta*, Linn.—Turriff, F.B.; Grange, S.A.
 C. *flexuosa*, Linn.—King Edward, F.B.; Turriff, F.B.
Draba incana, Linn.—Boyndie, Ed.; Kirkmichael, M.
 D. *rupestris*, Br.—Kirkmichael, B.G.
Erophila verna, E. Mey.—Turriff, F.B.; Grange, S.A.

Cochlearia alpina, Wats.—Kirkmichael, M.

Sisymbrium Thalianum, Gay—Banff, Ed.; Alvah, B.G.; King Edward, F.B., Kirkmichael, M.

S. officinale, Scop.—Grange, S.A.

S. Alliaria, Scop.—Mortlach, B.G.

Brassica alba, Boiss.—Gamrie, F.B.

Coronopus procumbens, Gilib.—Gamrie, F.B.; Banff, Bruce (v. Introd.)

Lepidium sativum, Linn.—Rathven, Ed.

L. heterophyllum, Benth., **b. canescens**, Gren. & Godr.—Mortlach, B.G.

Thlaspi arvense, Linn.—Rathven, Ed.; Gamrie, F.B.; Alvah, B.G.; Mortlach, B.G.

Iberis amara, Linn.—Cullen, Ed.

RESEDACEÆ.

Reseda Luteola, Linn.—Rathven, B.G.; Mortlach, B.G.

R. odorata, Linn.—Cullen, Ed.

CISTACEÆ.

Helianthemum Chamæcistus, Mill.—Rathven, B.G.; Alvah, S.A.; Turriff, F.B.; Mortlach, B.G.

VIOLACEÆ.

Viola palustris, Linn.—King Edward, F.B.; Turriff, F.B.

V. tricolor, Linn.—King Edward, F.B.

V. arvensis, Murr.—Turriff, F.B.

V. lutea, Huds., & **f. amoena**, (Symons)—Kirkmichael, M.

V. Cornuta, Linn.—Turriff, F.B.

POLYCALACEÆ.

Polygala vulgaris, Linn.—Kirkmichael, M.

P. serpyllacea, Weihe—King Edward, F.B.

CARYOPHYLLACEÆ.

Silene latifolia, Rendle & Britten—Mortlach, B.G.

S. anglica, Linn.—Rathven, Ed.

S. dichotoma, Ehrh.—Kirkmichael, M.

Lychnis alba, Mill.—Mortlach, B.G.

L. Cithago, Scop.—Gamrie, F.B.; Turriff, F.B.; Grange, S.A.

Cerastium semidecandrum, Linn.—Alvah, B.G.; Grange, S.A.

C. viscosum, Linn., **b. apetalum**, Dum.—Alvah, F.B.; King Edward, F.B.; Turriff, F.B.

C. alpinum, Linn., **b. pubescens**, Syme—Kirkmichael, M.

C. arvense, Linn.—Turriff, S.A.; Mortlach, B.G.

C. cerastoides, Britton—Kirkmichael, B.G.

Stellaria nemorum, Linn.—Alvah, F.B.; Turriff, S.A.

S. Holostea, Linn.—King Edward, F.B.

S. uliginosa, Murr.—King Edward, F.B.; Turriff, F.B.

Arenaria trinervia, Linn.—Alvah, B.G.

A. leptoclados, Guss.—Kirkmichael, M.

Sagina ciliata, Fr.—Gamrie, F.B.

S. saginoides, Dalla Torre—Kirkmichael, M.

S. subulata, Presl.—Kirkmichael, M.; Aberlour, B.G.

S. nodosa, Fenzl.—Alvah, B.G.; Mortlach, B.G.

Spergularia rubra, Pers.—Grange, S.A.

PORTULACACEÆ.

Montia fontana, Linn.—Turriff, F.B.

HYPERICACEÆ.

- Hypericum perforatum**, Linn.—Alvah, S.A.; Grange, S.A.
H. quadratum, Stokes—Alvah, B.G.; Turriff, F.B.
H. humifusum, Linn.—Gamrie, F.B.; Mortlach, B.G.
H. hirsutum, Linn.—Kirkmichael, M.

MALVACEÆ.

Lavatera arborea, Linn.—Rathven, Ed.

- Malva moschata**, Linn.—Turriff, F.B.; Cairnie, P.S.
M. sylvestris, Linn.—Turriff, F.B.; Mortlach, B.G.

TILIACEÆ.

Tilia intermedia—Bellie, S.A.

LINACEÆ.

Radiola linoides, Roth.—Alvah, B.G.**Linum catharticum**, Linn.—King Edward, F.B.

CERANIACEÆ.

Ceranium sylvaticum, Linn.—Gamrie, F.B.; King Edward, S.A.

- C. pratense**, Linn.—Cullen, S.A.; Gamrie, F.B.; King Edward, S.A.; Kirkmichael, B.G.
C. dissectum, Linn.—Grange, S.A.
C. lucidum, Linn.—Kirkmichael, M.
C. Robertianum, Linn.—Grange, S.A.
b. modestum, (Jord.)—Kirkmichael, M.

Oxalis Acetosella, Linn.—Turriff, F.B.

RHAMNACEÆ.

Rhamnus catharticus, Linn.—Alvah, B.G.

LEGUMINOSÆ.

Genista anglica, Linn.—King Edward, S.A.; Grange, S.A.**Ononis repens**, Linn.—Alvah, B.G.; Aderlour, Ed.; Mortlach, B.G.**Medicago sativa**, Linn.—Rathven, Ed.

- M. lupulina**, Linn.—Grange, S.A.
M. alba, Desr.—Rathyen, Ed.

- M. officinalis**, Lam.—Rathven, Ed.; Gamrie, F.B.

Trifolium arvense, Linn.—Boyndie, Ed.; Alvah, B.G.

- T. striatum**, Linn.—Boyndie, Ed.

- T. agrarium**, Linn.—Gamrie, F.B.

Anthyllis Vulneraria, Linn.—King Edward, F.B.**Astragalus glycyphyllos**, Linn.—Boyndie, B.G.**Ornithopus perpusillus**, Linn.—Alvah, B.G.**Vicia hirsuta**, Gray—Alvah, B.G.

- V. sativa**, Linn.—King Edward, F.B.; Turriff, F.B.

- V. angustifolia**, Linn.—Alvah, B.G.; King Edward, F.B.; Turriff, F.B.; Grange, S.A.; Mortlach, B.G.

- V. lathyroides**, Linn.—Alvah, B.G.

Lathyrus montanus, Bernh.—King Edward, F.B.; Turriff, F.B.

- b. tenuifolius**, Roth.—Turriff, S.A.

ROSACEÆ.

- Prunus spinosa**, Linn.—King Edward, F.B.; Turriff, F.B.
P. avium, Linn.—Gamrie, F.B.; Turriff, F.B.
P. Cerasus, Linn.—Alvah, B.G.
P. Padus, Linn.—Turriff, F.B.
Spiraea salicifolia, Linn.—Gamrie, F.B.; King Edward, F.B.
Rubus plicatus, Wh. & N.—Alvah, F.B.
R. melanoxylon, Muell. & Wirtg.—Gamrie, F.B.; Turriff, F.B.
R. infestus, Weihe—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.
R. radula, Weihe—Gamrie, F.B.
R. Koehleri, Wh. & N.—Gamrie, F.B.
R. corylifolius, Sm.—Alvah, S.A.; King Edward, F.B.
R. saxatilis, Linn.—Alvah, B.G.; Turriff, F.B.
Ceum rivale, Linn.—King Edward, S.A.; Turriff, S.A.
Fragaria vesca, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.; Grange, S.A.
F. moschata, Duchesne—Alvah, Ed.; King Edward, F.B.
Potentilla sterilis, Garske—Alvah, B.G.
P. procumbens, Sibth.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
P. palustris, Scop.—King Edward, F.B.; Turriff, F.B.
Alchemilla vulgaris, Linn., **a. pratensis**, Pohl—King Edward, F.B.; Turriff, F.B.
b. alpestris, Pohl—Turriff, F.B.
c. filicaulis, (Buser)—Kirkmichael, M.
A. alpina, Linn.—Alvah, B.G.; King Edward, S.A.; Grange, N.F.; Keith, B.G.; Mortlach, B.G.
A. arvensis, Scop.—Turriff, F.B.
Rosa pimpinellifolia, Linn.—Kirkmichael, M.
f. spinosissima, Linn.—Alvah, B.G.; Grange, S.A.; Mortlach, B.G.
R. tomentosa, Sm.—Kirkmichael, M.; Grange, S.A.
R. canina, Linn., agg.—Alvah, B.G.; Mortlach, B.G.
R. glauca, Vill., **e. subcristata**, (Baker)—Kirkmichael, M.
Agrimonia Eupatoria, Linn.—Rathven, S.A.; Banff, S.A.; Gamrie, S.A.; Alvah, B.G.; Turriff, F.B.; Inverkeithnie, B.G.
Pyrus Aria, Ehrh.—Gamrie, F.B.; King Edward, F.B.
b. rupicola, Syme—Kirkmichael, M.

SAXIFRAGACEÆ.

- Saxifraga aizoides**, Linn.—Alvah, B.G.; King Edward, S.A.; Mortlach, B.G.
S. granulata, Linn.—Rathven, B.G.
S. hypnoides, Linn.—Turriff, F.B.

Chrysosplenium alternifolium, Linn.—Gamrie, S.A.; Turriff, F.B.

Parnassia palustris, Linn.—Mortlach, B.G.

- Ribes Grossularia**, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
R. alpinum, Linn.—Mortlach, B.G.
R. nigrum, Linn.—Alvah, F.B.; King Edward, F.B.

CRASSULACEÆ.

- Sedum purpureum**, Tausch—Kirkmichael, M.
S. villosum, Linn.—Alvah, B.G.; Turriff, S.A.; Mortlach, B.G.

DROSERACEÆ.

- Drosera rotundifolia**, Linn.—Gamrie, F.B.; King Edward, F.B.
D. anglica, Huds.—King Edward, F.B.; Mortlach, Ed.
x rotundifolia—King Edward, F.B.

HALORAGACEÆ.

- Hippuris vulgaris*, Linn.—Gamrie, S.A.; Turriff, F.B.; Cairnie, N.F.
Myriophyllum alterniflorum, DC.—King Edward, F.B.; Turriff, F.B.; Kirkmichael, M.
Callitricha verna, Linn., agg.—Turriff, F.B.

C. *stagnalis*, Scop.—King Edward, F.B.; Turriff, F.B.

C. *intermedia*, Hoffm.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

ONAGRACEÆ.

- Epilobium hirsutum*, Linn.—Turriff, F.B.

E. *angustifolium*, Linn.—Kirkmichael, B.G.

E. *obscurum*, Schreb.—King Edward, S.A.; Turriff, F.B.

E. *parviflorum*, Schreb.—Mortlach, B.G.

E. *alsinefolium*, Vill.—Kirkmichael, B.G.

E. *anagallidifolium*, Linn.—Aberlour, B.G.

E. hybrids—Kirkmichael, M.

- Circæa alpina*, Linn.—Rathven, S.A.; Turriff, S.A.; Mortlach, B.G.

UMBELLIFERÆ.

- Hydrocotyle vulgaris*, Linn.—Alvah, S.A.; King Edward, F.B.; Turriff, F.B.

- Sanicula europaea*, Linn.—Gamrie, S.A.; Alvah, B.G.; Mortlach, B.G.

- Conium maculatum*, Linn.—Grange, S.A.; Mortlach, B.G.

- Pimpinella Saxifraga*, Linn.—Alvah, B.G.

- Chærophyllyum temulum*, Linn.—Alvah, B.G.

- Scandix Pecten-Veneris*, Linn.—Alvah, B.G.; Mortlach, B.G.

- Anthriscus vulgaris*, Bernh.—Rathven, Ed.

- Meum Athamanticum*, Jacq.—Kirkmichael, M.

- Peucedanum sativum*, Benth. & Hook. f.—Gamrie, F.B.

- Caucalis Anthriscus*, Huds.—Mortlach, B.G.

CAPRIFOLIACEÆ.

- Adoxa Moschatellina*, Linn.—Rathven, B.G.; Cullen, S.A.; Boyndie, Ed.; King Edward, S.A.; Mortlach, B.G.

- Sambucus Ebulus*, Linn.—Mortlach, B.G.
Linnæa borealis, Linn.—Bellie, S.A.; Rathven, B.G.; King Edward, S.A.; Turriff, S.A.; Grange, Ed.; Mortlach, B.G.

RUBIACEÆ.

- Gaulum boreale*, Linn.—Alvah, B.G.; Mortlach, B.G.

C. *Cruciata*, Scop.—Keith, B.G.—Professor Trail has informed me that this is a wrong identification, the plant being a species of *Asperula*.

C. *Mollugo*, Linn.—Gamrie, F.B.; Alvah, B.G.; Grange, Ed.

C. *asperum*, Schreb.—Gamrie, F.B.

C. *palustre*, Linn.—King Edward, F.B.; Turriff, F.B.

C. *uliginosum*, Linn.—Alvah, B.G.; Turriff, F.B.; Kirkmichael, M.; Grange, S.A.

- Asperula odorata*, Linn.—Bellie, S.A.; Boyndie, Ed.; Gamrie, F.B.; Alvah, B.G.; Turriff, S.A.; Kirkmichael, M.; Mortlach, B.G.

- Sherardia arvensis*, Linn.—Turriff, F.B.; Grange, S.A.

VALERIANACEÆ.

- Valeriana sambucifolia*, Mikan.—King Edward, F.B.

V. *pyrenaica*, Linn.—Gamrie, F.B.

- Valerianella olitoria*, Poll.—Alvah, B.G.; Keith, B.G.

V. *dentata*, Poll.—Alvah, F.B.

COMPOSITÆ.

- Eupatorium cannabinum*, Linn.—Gamrie, S.A.
Solidago Virgaurea, Linn.—King Edward, S.A.
Erigeron acre, Linn.—Kirkmichael, M.
Filago germanica, Linn.—Gamrie, F.B.; Alvah, B.G.
 F. minima, Fr.—King Edward, F.B.; Mortlach, B.G.
Antennaria dioica, Gaertn.—Mortlach, B.G.
Cnaphalium uliginosum, Lign.—Turriff, F.B.
 C. sylvaticum, Linn.—Turriff, F.B.; Grange, S.A.; Mortlach, B.G.
Bidens cernua, Linn.—Alvah, B.G.
Achillea tomentosa, Linn.—Boharm, B.G.
Chrysanthemum segetum, Linn.—Turriff, F.B.; Grange, S.A.
 C. Parthenium, Bernh.—Gamrie, F.B.; Turriff, F.B.
Matricaria inodora, Linn.—Turriff, F.B.
Tanacetum vulgare, Linn.—King Edward, F.B.; Turriff, F.B.; Mortlach, B.G.
Artemisia vulgaris, Linn.—King Edward, F.B.; Grange, S.A.
Petasites ovatus, Hill—Gamrie, F.B.; King Edward, F.B.
Doronicum plantagineum, Linn.—Banff, Ed.
Senecio sylvaticus, Linn.—Grange, S.A.; Turriff, F.B.
Arctium spp.—Alvah, B.G.; Grange, S.A.
Cnicus heterophyllus, Willd.—Mortlach, B.G.
Saussurea alpina, Linn.—Kirkmichael, M.
Centaurea Cyanus, Linn.—Alvah, B.G.; Grange, S.A.; Mortlach, B.G.
Cichorium Intybus, Linn.—Inverkeithnie, B.G.
Crepis mollis, Aschers.—Kirkmichael, M.
Hieracium Pilosella, Linn., *c. nigrescens*, Fr., *d. concinnum*, F. J. Hanb.; *H. anglicum*, Fr. & *b. acutifolium*, Backh.; *H. iricum*, Fr.; *H. holosericeum*, Backh.; *H. eximum*, Backh., *b. tenellum*, Backh.; *H. gracilentum*, Backh.; *H. petiolatum*, Elfstrand; *H. lingulatum*, Backh.; *H. chrysanthum*, Backh.; *H. nigrescens*, Willd., *c. gracilifolium*, F. J. Hanb.; *H. Schmidii*, Tausch, & *c. crinigerum*, Fr.; *H. argenteum*, Fr.; *H. Sommerfeltii*, Lindeb.; *H. pseudonosmoides*, Dahlst.; *H. silvicum*, Gouan, *f. prolixum*, Dahlst.; *H. varicolor*, Dahlst.; *H. serratifrons*, Almq., *b. Stenstroemii*, Dahlst.; *H. euprepeia*, F. J. Hanb., *c. clivicolum*, F. J. Hanb.; *H. angustatum*, Lindeb., *b. elatum*, Lindeb.; *H. corymbosum*, Fr.; *H. auratum*, Fr.—Kirkmichael, M.
H. aurantiacum, Linn.—Turriff, B.G.
H. murorum, Linn.—Gamrie, F.B.
H. casium, Fr.—Banff, J. Roy (comm. Prof. Trail).
H. vulgatum, Fr.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
H. boreale, Fr.—Alvah, B.G.
Taraxacum palustre, DC.—Alvah, B.G.
Sonchus oleraceus, Linn.—Turriff, F.B.; Grange, S.A.
 S. aspor, Hill—Turriff, F.B.
 S. arvensis, Linn.—Turriff, F.B.

CAMPANULACEÆ.

- Campanula latifolia*, Linn.—Rathven, S.A.; Cullen, B.G.; Turriff, S.A.

VACCINIACEÆ.

- Vaccinium Vitis-Idaea*, Linn.—Rathven, S.A.; Cullen, B.G.; Banff, Ed.; Alvah, B.G.; Turriff, F.B.
Oxycoccus quadripetala, Gilib.—Rathven, S.A.

ERICACEÆ.

- Erica Tetralix**, Linn.—King Edward, F.B.
Azalea procumbens, Linn.—Mortlach, B.G.
Pyrola media, Sw.—Alvah, B.G.; Turriff, S.A.; Mortlach, B.G.
 P. *rotundifolia*, Linn.—Turriff, B.G.
 P. *minor*, Linn.—Turriff, S.A.; Mortlach, B.G.
 P. *secunda*, Linn.—Turriff, S.A.; Rothiemay, B.G.; Mortlach, B.G.; Alvah, Bruce
 (v. Introd.)
Moneses uniflora, A. Gray—Rothiemay, B.G.; Mortlach, B.G.

PRIMULACEÆ.

- Primula vulgaris**, Huds.—King Edward, F.B.; Turriff, F.B.; Grange, S.A.
 P. *veris*, Linn.—Gamrie, B.G.
 P. *elatior*, Jacq.—Alvah, B.G.
Lysimachia nemorum, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, S.A.; Grange, S.A.
Trientalis europaea, Linn.—Cullen, B.G.; Gamrie, F.B.; Turriff, S.A.
Anagallis arvensis, Linn.—Alvah, B.G.
 A. *tenella*, Murr.—Alvah, B.G.; Mortlach, B.G.

APOCYNACEÆ.

- Vinca minor**, Linn.—King Edward, S.A.

CENTIANACEÆ.

- Gentiana Amarella**, Linn.—Boydie, Ed.
 C. *baltica*, Murb.—Gamrie, F.B.
Menyanthes trifoliata, Linn.—Turriff, F.B.; Grange, S.A.
Nymphoides peltatum, Rendle & Britten—Turriff, F.B.

BORACINACEÆ.

- Cynoglossum officinale**, Linn.—Boydie, B.G.
Symphtym peregrinum, Ledeb.—Gamrie, F.B.; Turriff, F.B.
Anchusa sempervirens, Linn.—Mortlach, B.G.
Borago officinalis, Linn.—Bathven, B.G.; Cullen, S.A.
Lycopsis arvensis, Linn.—Turriff, F.B.; Grange, S.A.
Mertensia maritima, Gray—Banff, S.A.
Myosotis cespitosa, Schultz—King Edward, F.B.; Turriff, F.B.
 M. *scorpioides*, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
 b. *strigulosa*, (Reichb.)—Kirkmichael, M.
 M. *sylvatica*, Hoffm.—Alvah, F.B.
 M. *collina*, Hoffm.—Banff, B.G.; Gamrie, S.A.; Alvah, B.G.
 M. *versicolor*, Sm.—King Edward, F.B.; Turriff, F.B.
Lithospermum arvense, Linn.—Alvah, B.G.; Mortlach, B.G.
Echium vulgare, Linn.—Alvah, B.G.; Mortlach, B.G.

SOLANACEÆ.

- Solanum Dulcamara**, Linn.—Gamrie, N.F.
 S. *nigrum*, Linn.—Boydie, Ed.

SCROPHULARIACEÆ.

- Linaria vulgaris**, Mill.—Rathven, Ed.; Gamrie, F.B.; Mortlach, B.G.
Scrophularia nodosa, Linn.—Mortlach, B.G.

Mimulus guttatus, Linn.—Kirkmichael, M.

Veronica hederæfolia, Linn.—King Edward, F.B.; Grange, S.A.

V. didyma, Ten.—Turriff, F.B.

V. agrestis, Linn.—King Edward, F.B.; Turriff, F.B.

V. Tournefortii, O. Gmel.—Turriff, F.B.

V. arvensis, Linn.—King Edward, F.B.

V. serpyllifolia, Linn., b. tenella, All.—Kirkmichael, M.

V. alpina, Linn.—Kirkmichael, M.

V. montana, Linn.—Bellie, N.F.; Gamrie, S.A.

V. scutellata, Linn.—Turriff, F.B.; Mortlach, B.G.

b. hirsuta, Weber.—Alvah, B.G.

V. Anagallis-aquatica, Linn.—King Edward, B.G.

Euphrasia brevipila, Burnat & Gremli—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

E. borealis, Towns.—Gamrie, F.B.; King Edward, F.B.

E. gracilis, Fr.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

E. scottica, Wettst.—Gamrie, F.B.

E. curta, Wettst.—Gamrie, F.B.

Pedicularis palustris, Linn.—King Edward, F.B.; Turriff, F.B.

P. sylvatica, Linn.—King Edward, F.B.; Turriff, F.B.

Rhinanthus major, Ehrh., c. apterus, Fr.—Kirkmichael, M.

R. borealis, Druce—Kirkmichael, M.

Melampyrum pratense, Linn.—Alvah, B.G.; Turriff, S.A.

d. montanum, Johnst.—Kirkmichael, M.

e. hians, Druce—Kirkmichael, M.

LENTIBULARIACEÆ.

Utricularia minor, Linn.—Alvah, S.A.; Turriff, F.B.

U. intermedia, Hayne—Turriff, F.B.

Pinguicula vulgaris, Linn.—King Edward, F.B.; Turriff, F.B.

LABIATÆ.

Mentha alopecuroides, Hull—Kirkmichael, M.

M. piperita, Linn.—King Edward, F.B.; Turriff, F.B.

M. aquatica, Linn., a. hirsuta, (Huds.)—King Edward, F.B.; Turriff, F.B.; Kirkmichael, M.; Grange, S.A.

M. arvensis, Linn.—Turriff, F.B.

M. paludosa, Sole—King Edward, F.B.

Thymus Serpyllum, Linn.—Alvah, F.B.; Turriff, F.B.; Forglen, S.A.

Clinopodium vulgare, Linn.—Kirkmichael, M.

Nepeta hederacea, Trev.—Grange, S.A.

Scutellaria galericulata, Linn.—Mortlach, B.G.

Marrubium vulgare, Linn.—Rothiemay, Ed.

Stachys palustris, Linn.—Gamrie, F.B.; Turriff, F.B.

S. arvensis, Linn.—Alvah, B.G.; King Edward, F.B.; Mortlach, B.G.

Galeopsis speciosa, Mill.—Kirkmichael, M.; Mortlach, B.G.

Lamium amplexicaule, Linn.—Alvah, B.G.; King Edward, F.B.; Turriff, F.B.; Grange, S.A.

L. maculatum, Linn.—Rathven, S.A.; King Edward, F.B.; Turriff, F.B.

L. album, Linn.—King Edward, F.B.

Teucrium Scorodonia, Linn.—Gamrie, F.B.; Turriff, F.B.

Ajuga reptans, Linn.—King Edward, F.B.; Turriff, F.B.

PLANTACINACEÆ.

Plantago maritima, Linn.—Mortlach, B.G.
Littorella uniflora, Asheers.—Alvah, B.G.

ILLECEBRACEÆ.

Scleranthus annuus, Linn.—Avah, B.G.; Turriff, F.B.; Grange, S.A.; Mortlach, B.G.

CHENOPODIACEÆ.

Chenopodium album, Linn.—Turriff, F.B.
C. Bonus-Henricus, Linn.—Gamrie, F.B.; Alvah, B.G.; Turriff, F.B.; Inverkeithnie, B.G.;
 Mortlach, B.G.
Atriplex patula, Linn.—Turriff, F.B.
b. erecta (Huds.)—Gamrie, F.B.; King Edward, F.B.
Salsola kali, Linn.—Cullen, S.A.

POLYGONACEÆ.

Polygonum Hydropiper, Linn.—Gamrie, F.B.
P. lapathifolium, Linn.—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
P. amphibium, Linn.—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Grange, S.A.;
 Mortlach, B.G.
P. Bistorta, Linn.—Boyndie, Ed.; Kirkmichael, M.
P. viviparum, Linn.—Banff, S.A.; Alvah, B.G.; Turriff, S.A.; Mortlach, B.G.
Oxyria digyna, Hill—Mortlach, B.G.
Rumex sanguineus, Linn., **b. viridis**, (Sibth.)—Gamrie, S.A.
R. Hydrolapathum, Huds.—Gamrie, S.A.
R. alpinus, Linn.—Turriff, F.B.
R. crispus, Linn. × **obtusifolius**—Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
R. domesticus, Hartm. × **obtusifolius**—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.;
 Turriff, F.B.

EUPHORBIACEÆ.

Euphorbia Helioscopia, Linn.—Turriff, F.B.
E. exigua, Linn.—Boyndie, B.G.
Mercurialis perennis Linn.—Grange, S.A.

URTICACEÆ.

Humulus Lupulus, Linn.—Turriff, F.B.
Urtica dioica, Linn., **b. angustifolia**, Wimm. & Grab.—Alvah, F.B.
U. urens, Linn.—Turriff, F.B.; Grange, S.A.
Cannabis sativa, Linn.—Banff, Ed.

MYRICACEÆ.

Myrica Gale, Linn.—Alvah, B.G.; Marnoch, B.G.

CUPULIFERÆ.

Betula alba, Linn.—Gamrie, F.B.; King Edward, F.B.
B. tomentosa, Reith & Abel—Gamrie, F.B.
B. nana, Linn.—Kirkmichael, B.G.
Alnus rotundifolia, Mill.—Gamrie, F.B.
Corylus Avellana, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.; Grange, S.A.

Quercus Robur, Linn.—Rathven, S.A.; Deskford, S.A.; Grange, S.A.

a. *pedunculata*, (Ehrh.)—Turriff, F.B.

Castanea sativa, Mill.—Alvah, F.B.; Turriff, F.B.

SALICACEÆ.

Salix pentandra, Linn.—Alvah, B.G.

S. *fragilis*, Linn.—King Edward, F.B.; Turriff, F.B.

S. *alba*, Linn.—King Edward, F.B.; Turriff, F.B.

S. *purpurea*, Linn.—Alvah, F.B.; King Edward, F.B.

S. *viminalis*, Linn.—Alvah, F.B.; King Edward, F.B.; Turriff, F.B.

S. *caprea*, Linn.—Gamrie, F.B.; Turriff, F.B.

 × *phylicifolia*, Sm.—Kirkmichael, M.

S. *aurita*, Linn.—Gamrie, F.B.; Alvah, B.G.; King Edward, F.B.; Turriff, F.B.

 × *phylicifolia*, Sm.—Kirkmichael, M.

S. *cinerea*, Linn.—Turriff, F.B.

S. *repens*, Linn.—Turriff, F.B.

Populus tremula, Linn.—King Edward, F.B. (?)

P. *nigra*, Linn.—Turriff, F.B.

EMPETRACEÆ.

Empetrum nigrum, Linn.—King Edward, F.B.; Turriff, F.B.

CONIFERÆ.

Juniperus communis, Linn.—Cullen, B.G.; Alvah, B.G.

Larix europaea, DC.—Bellie, S.A.; Boyndie, S.A.

HYDROCHARIDACEÆ.

Eloea canadensis, Michx.—King Edward, F.B.

ORCHIDACEÆ.

Listera cordata, Br.—Turriff, S.A.; Mortlach, B.G.

L. *ovata*, Br.—Boharm, Ed.

Coodyera repens, Br.—Turriff, S.A.; Mortlach, B.G.

Helleborine atrorubens, Druce—Kirkmichael, M.

Orchis mascula, Linn.—Alvah, B.G.

O. *latifolia*, Linn.—Turriff, Skene; Kirkmichael, M.

O. *maculata*, Linn.—King Edward, F.B.

 × *latifolia*—Kirkmichael, M.

Habenaria conopsea, Benth.—Turriff, S.A.

H. *albida*, Br.—Alvah, B.G.

H. *viridis*, Br.—Alvah, B.G.; Mortlach, B.G.

IRIDACEÆ.

Iris Pseudacorus, Linn.—Cullen, S.A.; King Edward, F.B.; Turriff, F.B.

AMARYLLIDACEÆ.

Narcissus Pseudo-Narcissus, Linn.—Boyndie, Ed.

LILIACEÆ.

- Allium oleraceum**, Linn.—Kirkmichael, M.
Scilla verna, Huds.—Rathven, S.A.
 S. non-scripta, Hoffmigg. & Link.—Rathven, S.A.; Boyndie, Ed.; King Edward, S.A.
Ornithogalum umbellatum, Linn.—Banff, Ed.
Narthecium ossifragum, Huds.—King Edward, F.B.; Turriff, F.B.
Tofieldia palustris, Huds.—Kirkmichael, M.

JUNCACEÆ.

- Juncus squarrosus**, Linn.—King Edward, F.B.
 J. maritimus, Linn.—Rathven, Ed.; Boyndie, Ed.
 J. bulbosus, Linn.—Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
 J. articulatus, Linn.—King Edward, F.B.
 J. sylvaticus, Reich.—Turriff, F.B.
 J. biglumis, Linn.—Kirkmichael, B.G.
 J. triglumis, Linn.—Kirkmichael, M.
Luzula pilosa, Willd.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
 L. spicata, DC.—Mortlach, B.G.
 L. campestris, DC.—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Turriff, F.B.;
 Grange, S.A.
 L. multiflora, DC., a. **umbellata**—King Edward, F.B.; Turriff, F.B.
 b. **congesta**—Turriff, F.B.

TYPHACEÆ.

- Typha latifolia**, Linn.—Turriff, F.B.
Sparganium erectum, Linn.—Gamrie, F.B.
 S. simplex, Huds.—Alvah, B.G.
 S. affine, Schnizl.—Alvah, B.G.
 S. minimum, Fr.—Turriff, F.B.

ARACEÆ.

- Arum maculatum**, Linn.—Rathven, Ed.

LEMNACEÆ.

- Lemna minor**, Linn.—Alvah, B.G.
 L. trisulca, Linn.—Mortlach, B.G.

ALISMACEÆ.

- Alisma Plantago-aquatica**, Linn.—Alvah, B.G.; King Edward, S.A.; Mortlach, B.G.

NAIADACEÆ.

- Triglochin palustre**, Linn.—Turriff, F.B.
Potamogeton natans, Linn.—Gamrie, F.B.; Alvah, F.B.; Turriff, F.B.
 P. polygonifolius, Pourr.—Turriff, F.B.
 P. alpinus, Balb.—Alvah, B.G.; Turriff, S.A.; Kirkmichael, M.
 P. lanceolatus, Sm.—Alvah, B.G.; Mortlach, B.G.
 P. lucoes, Linn.—Alvah, B.G.; Turriff, S.A.
 P. perfoliatus, Sm.—King Edward, B.G.; Mortlach, B.G.
 P. crispus, Linn.—Turriff, S.A.
 P. pusillus, Linn.—Alvah, B.G.
Ruppia rostellata, Koch—Banff, Ed., ex B.G.

CYPERACEÆ.

- Eleocharis palustris*, Boem. & Schult.—King Edward, F.B.
Scirpus cæspitosus, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
 S. *sotaceus*, Linn.—Alvah, B.G.; Mortlach, B.G.
 S. *Tabernaemontani*, Gmel.—Bellie, Ed.; Rathven, Ed.
 S. *sylvaticus*, Linn.—Alvah, B.G.
 S. *rufus*, Schrad.—Banff, B.G.
Eriophorum vaginatum, Linn.—King Edward, F.B.
 E. *angustifolium*, Roth.—King Edward, F.B.; Turriff, F.B.
Rynchospora alba, Vahl—King Edward, B.G.; Mortlach, B.G.
Schoenus nigricans, Linn.—Mortlach, B.G.
Carex dioica, Linn.—Alvah, B.G.
 C. *incurva*, Lightf.—Banff, Bruce (v. Introd.)
 C. *pulicaris*, Linn.—Alvah, B.G.; King Edward, F.B.; Turriff, F.B.
 C. *pauciflora*, Lightf.—Kirkmichael, M.
 C. *Boenninghausiana*, Weihe—Bellie, B.G.
 C. *echinata*, Murr.—King Edward, F.B.; Turriff, F.B.
 C. *curta*, Good.—King Edward, F.B.
 b. *alpicola*, Wahl.—Alvah, B.G.
 C. *leporina*, Linn.—Turriff, F.B.
 C. *atrrata*, Linn.—Kirkmichael, M.
 C. *rigida*, Good.—Mortlach, B.G.
 C. *aquatilis*, Wahl.—Turriff, F.B.
 C. *Goodenowii*, Gay—King Edward, F.B.; Turriff, F.B.
 C. *faccia*, Schreb.—King Edward, F.B.; Turriff, F.B.
 C. *rariflora*, Smith—Kirkmichael, B.G.
 C. *caryophyllea*, Latourr.—Turriff, S.A.; Kirkmichael, M.
 C. *pallescens*, Linn.—Kirkmichael, M.
 C. *panicea*, Linn.—King Edward, F.B.; Turriff, F.B.
 C. *capillaris*, Linn.—Kirkmichael, M.
 C. *pendula*, Huds.—Gamrie, B.G.; Turriff, S.A.
 C. *sylvatica*, Huds.—Kirkmichael, M.
 C. *binervis*, Sm.—Gamrie, F.B.; King Edward, F.B.
 C. *fulva*, Host—Gamrie, F.B.; King Edward, F.B.; Kirkmichael, M.
 C. *extensa*, Good.—Gamrie, B.G.
 C. *flava*, Linn.—King Edward, F.B.; Turriff, F.B.
 b. *lepidocarpa*, (Tausch.)—Kirkmichael, M.
 x *fulva*—Kirkmichael, M.
 C. *Oederi*, Retz. d. *œdocarpa*, And.—Kirkmichael, M.
 C. *xanthocarpa*—Gamrie.
 C. *hirta*, Linn.—Gamrie, S.A.
 C. *acutiformis*, Ehrh.—Mortlach, B.G.
 C. *inflata*, Huds.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

CRAMINEÆ.

- Phalaris arundinacea*, Linn.—Kirkmichael, M.
Milium effusum, Linn.—Fordyce, Ed.
Phleum pratense, Linn., b. *nodosum*, (Linn.)—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
 P. *arenarium*, Linn.—Banff, N.F.
Agrostis canina, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

- A.** *alba*, Linn.—Turriff, F.B.
b. stolonifera, (Linn.)—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
d. coarctata, Hoffm.—Kirkmichael, M.
- A.** *pumila*, Linn.—King Edward, F.B.; Turriff, F.B.; Cabrach, B.G.
- Deschampsia alpina**, Roem. & Schult.—Kirkmichael, M.
- Holcus mollis**, Linn.—Alvah, F.B.; Turriff, F.B.
- Avena pubescens**, Huds.—Mortlach, B.G.
- A.** *pratensis*, Linn.—Cullen, N.F.; Mortlach, B.G.
b. alpina, Smith—Kirkmichael, B.G.
c. longifolia, Parn.—Kirkmichael, M.
- A.** *strigosa*, Schreb.—Gamrie, F.B.; King Edward, F.B.
- A.** *fatua*, Linn.—Grange, S.A.
- Sieglungia decumbens**, Bernh.—King Edward, F.B.; Turriff, F.B.
- Phragmites communis**, Trin.—Alvah, B.G.
- Koeleria gracilis**, Pers.—Alvah, B.G.; Grange, S.A.; Mortlach, B.G.
c. britannica, Domin—Kirkmichael, M.
- Molinia caerulea**, Moench.—Alvah, B.G.; Turriff, F.B.
- Melica nutans**, Linn.—Kirkmichael, M.; Keith, B.G.
- Briza media**, Linn.—Alvah, B.G.
- Poa alpina**, Linn.—Kirkmichael, M.
- P.** *memorialis*, Linn.—Turriff, F.B.
d. divaricata, Syme—Kirkmichael, M.
- P.** *pratensis*, Linn.—King Edward, F.B.
- P.** *trivialis*, Linn.—Turriff, F.B.
- Glyceria aquatica**, Wahib.—Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
- C.** *declinata*, Bréb.—Kirkmichael, M.
- Festuca bromoides**, Linn.—Turriff, F.B.
F. *ovina*, Linn.—King Edward, F.B.
F. *rubra*, Linn.—Alvah, F.B.; King Edward, F.B.
F. *sylvatica*, Vill.—Keith, N.F.
F. *pratensis*, Huds.—Alvah, F.B.
F. *elatior*, Linn.—Gamrie, F.B.; Alvah, B.G.; Turriff, F.B.; Mortlach, B.G.
- Bromus giganteus**, Linn.—Boyndie, B.G.; Gamrie, F.B.; Alvah, F.B.; Keith, N.F.
B. *ramosus*, Huds.—Gamrie, F.B.; Alvah, S.A.
B. *sterilis*, Linn.—Banff, N.F.; Alvah, B.G.; Mortlach, B.G.
B. *secalinus*, Linn.—Mortlach, Ed.
B. *commutatus*, Schrad.—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
B. *hordeaceus*, Linn.—King Edward, F.B.; Turriff, F.B.
- Brachypodium sylvaticum**, Roem. & Schult.—Alvah, B.G.; King Edward, F.B.; Keith, N.F.
- Agropyron caninum**, Beauv.—Turriff, F.B.; Kirkmichael, M.
A. *repens*, Beauv., b. *Leersianum*, Gray—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
- Nardus stricta**, Linn.—King Edward, F.B.; Turriff, F.B.
- FILICES.**
- Asplenium Adiantum-nigrum**, Linn.—Banff, Ed.; Alvah, B.G.; Mortlach, B.G.
A. *Trichomanes*, Linn.—Gamrie, F.B.; Mortlach, B.G.
A. *Ruta-muraria*, Linn.—Banff.
- Athyrium Filix-femina**, Roth—King Edward, F.B.
- Phyllitis Scolopendrium**, Newm.—Gamrie, S.A.; Turriff, B.G.
- Cystopteris fragilis**, Bernh.—Gamrie, B.G.; Alvah, B.G.; Turriff, S.A.; Mortlach, B.G.
b. dentata, Hook.—Kirkmichael, M.; Mortlach, B.G.
- Polystichum lobatum**, Presl.—Gamrie, F.B.; Turriff, B.G.

Lastrea spinulosa, Presl.—Kirkmichael, M.

Polypodium vulgare, Linn.—Turriff, F.B.

Phegopteris Dryopteris, Féé—Gamrie, F.B.; Turriff, S.A.

P. polypodioides, Féé—Gamrie, F.B.; Alvah, B.G.; King Edward, B.G.

Ophioglossum vulgatum, Linn.—Gamrie (Flora of Buchan, by Mr R. Walker).

Botrychium Lunaria, Sw.—Fordyce, Ed.; Mortlach, B.G.

EQUISETACEÆ.

Equisetum sylvaticum, Linn.—Turriff, F.B.

E. palustre, Linn.—Alyah, F.B.; Turriff, F.B.

E. limosum, Linn.—Turriff, F.B.

LYCOPODIACEÆ.

Lycopodium annotinum, Linn.—Fordyce, Ed.; Kirkmichael, M.; Aberlour, B.G.

L. clavatum, Linn.—Gamrie, F.B.

L. alpinum, Linn.—Alvhah, B.G.

b. decipiens, Syme—Kirkmichael, M.

CHARACEÆ.

Nitella opaca, Agardh—Kirkmichael, M.

Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knochando.	Bohart.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
-	x	*	x	x	-	*	1	1	1	1	1	x	x	Local on sand dunes along coast.
-	x							1		*				Local.
-	x									*				Common in R. Deveron.
-	x	*	*	*	*	*	x	1	*	1	*	x	x	{ Common in ditches and shallow water.
-	x	*	x	x	*	*	1	1	1	1	x	x	x	Common.
-			x	x	x					x	x	x		
0														
-	x	*	*	*	1	*	1	1	1	1	x	x	x	Appears to be very rare.
-														Common.
-	x	x	x	x				1	x	x	x	x	x	
x	x	x	x	x				1	x	x	x	x	x	
-	x							1			x			
-	x	*	x	x	-	*	1	1	1	1	1	x		Common.
*	*	x	*	*	*	*			1			0		{ On sandy coasts and dry inland banks.
-	*	*	*	*	*	*	1		*	*	*	*		Common.
-	x	*	x	x	1	*	1	1	1	1	x	x	x	Common.
*?	x													
x	0							x	x	x	x			

CRUCIFERAE - *Contd.*

		Bellie	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gairrie.	Alvah.	King-Edward.	Turriff.	Forres.	Marnoch.
<i>Barbarea vulgaris</i> , Ait.	...	1	!	x	*	!	!		!	0	x	!	
<i>Arabis petraea</i> , Lam.	...	...	2										
b. <i>hispida</i> , DC.	...	...	3										
<i>A. alpina</i> , Linn.	...	...	4					*					
<i>A. hirsuta</i> , Scop.	...	...	5	x	!			*					
<i>Cardamine amara</i> , Linn.	...	...	6		!	!	!	!	!	!	0	*	
<i>C. lilacina</i> , F. B. White	...	...	7	x									
<i>C. pratensis</i> , Linn.	...	...	8	!	!	*	!	!	!	!	0	!	*
b. <i>dentata</i> , (Schultes)	...	...	9										
<i>C. hirsuta</i> , Linn.	...	...	10	!	*	*	!				0	*	
<i>C. flexuosa</i> , With.	...	...	11	!	!	!	!	!	!	0	0	!	x
<i>Malcolmia africana</i> , R. Br.	...	...	12										
<i>M. maritima</i> , R. Br.	...	...	13										
<i>Draba incana</i> , Linn.	...	...	14			0							
<i>D. rupestris</i> , Br.	...	...	15										
<i>Erophila verna</i> , E. Meyer	...	...	16	!	*	!	!	!	!	*	!	0	
<i>Cochlearia officinalis</i> , Linn.	...	...	17	!	!	!	!	!	!				
<i>C. alpina</i> , Wats.	...	...	18										
<i>C. danica</i> , Linn.	...	...	19			?	?						
<i>Hesperis matronalis</i> , Linn.	...	...	20				!			!			
<i>Sisymbrium Thalianum</i> , Gay	...	...	21				0	!	0	0			
<i>S. officinale</i> , Scop.	...	...	22	!	!	!	!	!	!	!	!		
<i>S. Alliaria</i> , Scop.	...	...	23	!				!	!				*

	Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff	Gairnie.	Alvah.	King-Edward.	Turiff.	Forglen.	Marioch.	Inverkeithnie.
CARYOPHYLLACEAE—Contd.													
<i>Sagina maritima</i> , Don	1	!	!	x	!	!	x	0					
<i>S. ciliata</i> , Fr.	2												
<i>S. procumbens</i> , Linn.	3	!	!	!	!	!	!	!	!	!	!		
<i>S. saginoides</i> , Dalla Torre	4												
<i>S. subulata</i> , Presl.	5												
<i>S. nodosa</i> , Fenzl.	6	!	!	!	!	!	!	0					
<i>Spergula arvensis</i> , Linn.	7						!						
<i>S. sativa</i> , Boenn.	8	!	!	!	!	!	!	!	!	!	!	!	
<i>Spergularia rubra</i> , Pers.	9	!	*			!	!	!	!	!	*		
<i>S. salina</i> , Presl.	10	0											
<i>b. media</i>	11	x	x	x	!	!	!						
<i>c. neglecta</i> , (Syme)	12	x	!	!	!	!	!						
PORTULACACEAE.													
<i>Claytonia sibirica</i> , Linn.	13												dry
<i>C. perfoliata</i> , Donn.	14												
<i>Montia fontana</i> , Linn.	15	!				!	!	!	!	0	*	*	
HYPERICACEAE.													
<i>Hypericum perforatum</i> , Linn.	16			*	!	x	0				x		
<i>H. maculatum</i> , Crantz	17												
<i>H. quadratum</i> , Stokes	18			!	!	!	0	0	0	0			
<i>H. humifusum</i> , Linn.	19	!		!	!	!	!	1	1	1	*	*	
<i>H. pulchrum</i> , Linn.	20	!	!	!	!	!	!	1	1	1	1	1	
<i>H. hirsutum</i> , Linn.	21	*	*	!	!	!	!	1	1	1	1	1	

	Bellie.	Rathven.	Oullien.	Fordyce.	Loynie.	Baaff.	Gairrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Mearnoch.	Inverkeithing.
MALVACEAE.													
<i>Lavatera arborea</i> , Linn.	1	0									
<i>Malva moschata</i> , Linn.	2	!								0	
<i>M. sylvestris</i> , Linn.	3	!								0	
<i>M. rotundifolia</i> , Linn.	4										
TELIACEAE.													
<i>Tilia europaea</i> , Linn.	5	!								1	
<i>T. intermedia</i>	6	0	x				1				
LINACEAE.													
<i>Radiola linoides</i> , Roth.	7	*								0	
<i>Linum catharticum</i> , Linn.	8	!	!	!	!	!	!	!	*	0	*
<i>L. usitatissimum</i> , Linn.	9									*	x
GERANIACEAE.													
<i>Geranium sylvaticum</i> , Linn.	10	!	!	!			0	!	0	1	1
<i>G. pratense</i> , Linn.	11	0	*	*	!	!	0	!	0	1	1
<i>G. pyrenaicum</i> , Burm. fil.	12										
<i>G. molle</i> , Linn.	13	!	!	!	!	!	!	!	!	1	1
<i>G. dissectum</i> , Linn.	14	!	!	!	!	!	!	!	!	1	*
<i>G. lucidum</i> , Linn.	15										
<i>G. Robertianum</i> , Linn.	16	!	!	!	!	!	!	!	!	1	1
b. <i>modestum</i> , (Jord.)	17										
<i>Erodium cicutarium</i> , L'Herit.	18	!	!	!	!	*	!	!			
<i>Oxalis Acetosella</i> , Linn.	19	!	!	!	!	*	!	!	!	0	1
b. <i>purpurascens</i> , DC.	20							x			
<i>Impatiens Roylei</i> , Walp.	21						!	!			*

	Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gairrie.	Alvah	King-Eduard.	Turriff.	Forglen.	Marnoch.	Inverkeithing.
GERANIACEAE—Contd.													
<i>I. parviflora</i> , DC.	1	x											
<i>Limnanthes Douglasii</i> , R. Br.	2							*					
AQUIFOLIACEAE.													
<i>Ilex Aquifolium</i> , Linn.	3	1	1	1				1	1		1	*	
CELASTRACEAE.													
<i>Euonymus europaeus</i> , Linn.	4										*		
RHAMNACEAE.													
<i>Rhamnus catharticus</i> , Linn.	5							0			*		
ACERACEAE.													
<i>Acer Pseudo-platanus</i> , Linn.	6	1	1	1	1	1	1	1	1	1	1	1	x
<i>A. campestre</i> , Linn.	7			1				1				*	
<i>A. platanoides</i> , Linn.	8		1	1	1			1	1	1	x	x	
<i>Aesculus Hippocastanum</i> , Linn.	9	1	1	1	1	1		1	1	1	x	1	x
LEGUMINOSAE.													
<i>Genista anglica</i> , Linn.	10		x	x					0	0		*	
<i>Ulex europaeus</i> , Linn.	11	1	1	1	1	1	1	1	1	1	1	1	
<i>Cytisus scoparius</i> , Link.	12	1	1	1	1	1	1	1	1	1	1	1	x
<i>C. Adami</i> , Poit.	13						1						
<i>Laburnum vulgare</i> , Presl.	14		1	1			1	1	1	1		1	
<i>L. alpinum</i> , Presl.	15			1								x	
<i>Ononis repens</i> , Linn.	16					1				0			
<i>Medicago sativa</i> , Linn.	17		0										
<i>M. lupulina</i> , Linn.	18	1	1	*	1	1	1	1		*			
<i>Melilotus officinalis</i> , Lam.	19	0	0	x	1	1	0						

LEGUMINOSAE—Contd.

			Bellie.	Rathven.	Cullen.	Fordyce.	Boydrie.	Banff	Gairrie.	Alyah.	King-Edward.	Turriff.	Forres.	Marnoch.	Inverness-shire
<i>M. alba</i> , Desr.	...	...	1	0											
<i>Trifolium pratense</i> , Linn.	...	...	2	1	1										
<i>b. sativum</i> , Schreb.	...	...	3												
<i>T. medium</i> , Linn.	...	...	4	1	1										
<i>T. incarnatum</i> , Linn.	...	...	5												
<i>T. arvense</i> , Linn.	...	...	6	x			0		1		0				
<i>T. striatum</i> , Linn.	...	...	7				0								
<i>T. hybridum</i> , Linn.	...	...	8	1	1	1									
<i>T. repens</i> , Linn.	...	...	9	1	1	1									
<i>T. agrarium</i> , Linn.	...	...	10					1	0	x					
<i>T. procumbens</i> , Linn.	...	...	11	1	1	1									
<i>T. dubium</i> , Sibth.	...	...	12	1	1	1									
<i>Trigonella cærulea</i> , Ser.	...	...	13												
<i>Anthyllis Vulneraria</i> , Linn.	...	...	14	1	1	1	1	1	1	1	0		*		
<i>Lotus corniculatus</i> , Linn.	...	...	15	1	1	1	1	1	1	1	1				
<i>b. crassifolius</i> , Pers.	...	...	16												
<i>L. uliginosus</i> , Schkuhr.	...	...	17	1	1	*	1	1	1	1	1				
<i>Astragalus danicus</i> , Retz.	...	...	18	1	1	1	1	1	1	1	1				
<i>A. glycyphyllos</i> , Linn.	...	...	19				1	0							
<i>Ornithopus perpusillus</i> , Linn.	...	...	20								0				
<i>Vicia hirsuta</i> , Gray	...	...	21	1	1	1	*	1	1	1	0	1			
<i>V. Cracca</i> , Linn.	...	...	22	1	1	1	1	1	1	1	1				
<i>V. sylvatica</i> , Linn.	...	...	23	*	*										
<i>V. sepium</i> , Linn.	...	...	24	1	1	1	1	1	1	1	1				

	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiqhill.	Grange.	Keith.	Botriphnie.	Mordach.	
1															Casual.
2	:	x	dry	x	x	-	*	-	-	-	-	-	-	x	Common.
3															
4	:	x	dry	x	*	-	*	-	!	!	!	!	!	x	Local.
5															Introduced.
6															Casual.
7															
8	:	x		x	x	!	x	-	-	!	!	!	!	x	Introduced, occurs as alien.
9	:	x	dry	x	x	-	*	-	!	!	!	!	!	x	Common.
10							*	-	!	!	!	!	!	x	Casual.
11	:	*	*	*	!	*	x	-	-	!	!	!	!	x	Common.
12	dry	x	dry	x	x	-	*	-	!	!	!	!	!	x	Common
13					x	!	x								Casual or alien?
14	:	x	*	x	x	!	*	!	!	*	!	x		x	
15	:	x	*	x	x	!	*	!	!	!	!	!	!	x	Common.
16															On coasts.
17	:	x		*			!	!	!	!	x	x	x		Locally common on damp ground.
18															Sandy coasts.
19															Alien?
20															
21				x	!	*		!	!	!	*		*		Local.
22	:	x	*	x	x	!	*	-	-	!	!	!	!	x	Common.
23				*	*	*	*						x		Local.
24	:	x	*	x	x	!	*		!	!	!	!	!	x	Common.

LEGUMINOSAE—Contd.

				Belle.	Rathven.	Oullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Altah	King-Edward.	Turriff.	Forres.	Marnoch.
<i>V. sativa</i> , Linn.	...	...	...	1	!	—	—	—	—	!	!	0	0	1	—
<i>V. angustifolia</i> , Linn.	...	...	...	2	!	—	—	—	—	!	0	0	0	0	*
<i>V. lathyroides</i> , Linn.	...	...	...	3	—	—	—	—	—	0	—	—	—	—	—
<i>V. Faba</i> , Linn.	...	...	...	4	—	—	—	—	—	—	—	—	—	—	—
<i>Lathyrus pratensis</i> , Linn.	...	...	...	5	!	!	—	—	—	!	!	!	!	!	!
<i>L. montanus</i> , Bernh.	...	...	...	6	!	!	—	—	—	!	!	0	0	!	!
b. <i>tenuifolius</i> , Roth.	...	...	...	7	—	—	—	—	—	—	—	0	0	—	—
<i>Pisum sativum</i> , Linn.	...	...	...	8	—	—	—	—	—	—	—	—	—	—	—

ROSACEAE.

<i>Prunus spinosa</i> , Linn.	...	...	...	9	!	!	!	*	!	!	!	0	0	1	1
<i>P. avium</i> , Linn.	...	...	...	10	!	!	!	!	!	0	!	!	0	*	1
<i>P. Cerasus</i> , Linn.	...	...	...	11	—	—	—	—	—	—	0	—	—	—	—
<i>P. Padus</i> , Linn.	...	...	...	12	—	—	—	—	—	!	!	—	0	1	1
<i>Spiraea salicifolia</i> , Linn.	...	...	...	13	—	—	—	—	—	0	!	0	—	*	*
<i>S. Ulmaria</i> , Linn.	...	...	...	14	!	!	!	!	!	!	!	!	!	!	!
<i>Rubus idaeus</i> , Linn.	...	...	...	15	!	!	!	!	!	!	!	!	!	!	!
<i>R. fissa</i> , Lindl.	...	...	...	16	—	—	—	—	—	—	—	—	—	—	—
<i>R. suberectus</i> , Anders.	...	...	...	17	—	—	—	—	—	—	—	—	—	—	—
<i>R. Rogersii</i> , Linton	...	...	...	18	—	—	—	—	—	—	—	—	—	—	—
<i>R. plicatus</i> , Wh. & N.	...	...	...	19	—	—	—	—	—	—	—	0	—	—	—
<i>R. villicaulis</i> , Koehl.	...	...	...	20	—	—	—	—	—	—	—	—	—	—	—
<i>R. mucronatus</i> , Blox.	...	...	...	21	—	—	—	—	—	—	—	—	—	—	—
<i>R. melanoxyton</i> , Muell. & Wirtg.	...	...	...	22	—	—	—	—	—	0	!	—	0	—	—
<i>R. infestus</i> , Weihe	...	...	...	23	—	—	—	—	—	0	0	0	—	—	—

ROSACEAE—Contd.

		Bellie.	Bathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gairrie.	Alvah	King Edward.	Turriff.	Forres.	Marnoch.
<i>R. radula</i> , Weihe	...	1						0					
<i>c. echinatoides</i> , Rogers	...		2										
<i>R. foliosus</i> , Wh. & N.	...		3										
<i>R. Koehleri</i> , Wh. & N.	...		4					0					
<i>R. dasypyllus</i> , Rogers	...		5				!						
<i>R. corylifolius</i> , Sm.	...		6						0	0			
<i>a. sublustris</i> , (Lees)...	...		7										
<i>R. saxatilis</i> , Linn.	...		8					1	0		0		
<i>R. Chamaemorus</i> , Linn.	...		9	!	!								
<i>R. spectabilis</i> , Pursh.	...		10				1						
<i>R. nutkanus</i> , Moc. ex Ser.	...		11										!
<i>Geum urbanum</i> , Linn.	...	12	!		!	!	!	!	!	!	!	!	!
<i>G. rivale</i> , Linn.	...	13		!	!	!	!	!	!	0	0	0	1
× <i>urbanum</i> ...	...	14		*	*								
<i>Fragaria vesca</i> , Linn.	...	15	!			!		0	1	0	0	1	!
<i>F. moschata</i> , Duchesne	...	16					1	0	0				!
<i>Potentilla sterilis</i> , Garcke	...	17						0					
<i>P. erecta</i> , Hampe	...	18	!	!	!	!	!	!	!	!	!	!	!
<i>P. procumbens</i> , Sibth.	...	19						0	0	0			
<i>P. Anserina</i> , Linn.	...	20	!	!	!	!	!	!	!	!	!	!	!
<i>P. palustris</i> , Scop.	...	21	!		!	!	!	!	!	0	0	!	!
<i>P. Sibbaldi</i> , Hall. fil.	...	22											
<i>Alchemilla arvensis</i> , Scop.	...	23	!	!	!	!	!	!	!	!	0	!	!

	Bothiemay.	Oairnie.	Cabrach.	Kirkmichael.	Inveravon.	A berlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.
1														
2														
3														
4														
5														
6														
7														
8	x	x	*	x	x	*	*			*	x	x		
9	dry	x	*	*	*	*	*	!	!	!	x	x		
0											x			
1														
2	!	x	*	x	x	!	*	!	!	*	x	*	Common	
3	dry	x	*	*	*	!	*	x	!	!	x	x	Not very common	
4	x		*		!				!		x			
5	x	x	*	x	x	*	!	!	!	!	x	*	Local.	
6											x		Alien.	
7							*	x						
8	!	x	*	x	x	!	*	!	!	!	x	x	Common.	
9	x	x	x	x	x	x	x	x	x	!	x	x		
0	!	x	*	*	!	*	!	!	!	!	x	x	Common.	
1	x	x	dry	x	x	!	*	x	!	!	x	x	Locally common.	
2		x	*	*	*					*				
3	!	x	dry	x	x	!	*	!	!	!	x	x	Not very common.	

Rosaceae—Contd.	Bellie.	Rathven.	Oullen.	Fordyce.	Boydrie.	Banff.	Gairnie.	Alvah.	King-Edward.	Turriff.	Forres.	Marnoch.
<i>A. vulgaris</i> , Linn.	1											
a. <i>pratensis</i> , Pohl	2	!		!	!	!	!	!	0	0	!	!
b. <i>alpestris</i> , Pohl	3	!		!	!	!		!	!	0	!	!
c. <i>filicaulis</i> , (Buser)	4											
<i>A. alpina</i> , Linn.	5	!							0	0		
<i>A. argentea</i> , G. Don	6						*					
<i>Agrimonia Eupatoria</i> , Linn.	7	0		1	1	0	0	0	1	0		
<i>Poterium Sanguisorba</i> , Linn.	8				1							
<i>Rosa pimpinellifolia</i> , Linn.	9	!		dry	!		!					
× <i>coriifolia</i> (<i>R. hibernica</i> , Sm.)	10						!					
× <i>canina</i> (<i>R. hibernica</i> , var. <i>glabra</i>)	11						dry					
f. <i>spinossissima</i> , Linn.	12			dry	dry		dry	0				
<i>R. mollis</i> , Sm.	13	!		dry	?	!	dry	dry	dry	dry	dry	dry
× <i>pimpinellifolia</i>	14				!							
<i>R. tomentosa</i> , Sm.	15	!	!	!	!	!			dry	dry	dry	x
<i>R. Eglanteria</i> , Huds.	16				x	!	dry	*	dry	x	dry	*
× <i>pimpinellifolia</i>	17							!				
<i>R. canina</i> , Linn., <i>agg.</i>	18							0				
a. <i>lutetiana</i> , (Leman)	19						dry					
g. <i>dumalis</i> , (Bechst.)	20											
<i>R. dumetorum</i> , Thuiill.	21											
<i>R. glauca</i> , Vill.	22	!	dry	dry	!		!	dry	dry	dry	x	dry
e. <i>subsericeata</i> , (Baker)	23	!		!		!	!					
<i>R. coriifolia</i> , Fr.	24	!	dry	x	!	x	dry	dry				*

	Rothiemay.	Cairnie.	Gabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Bohart.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1															
2	+	x	*	*	*	*	x	!	!	!	!	!	x	x	Not very common.
3	-		x	x	!	x	!	!	!	!	!	!	x	x	Not very common.
4															
5	*	x	*	*	*	*	!			0	0			0	
6															
7															Scarce.
8															Casual.
9			0	*					!						
0															
1															
2							*			0			0		
3	!	dry	x	x	!	*		dry		!	!	!	!	!	
4															
5	x	dry	0		!				!	0	!	!	!	x	
6	x			x						!					
7			*	?											
8				*			*						0		
9					!					!					
0					!					!			*		
1					!					!					
2	x	x	dry		!		x		!	!	!	!	!	!	
3															
4	x	dry		*	!	*	x		!	!	!	!	!	!	

The distribution of the Rosae has been written up by Mr W. Barclay, Perth (vide Introduction) and thus a change in the meaning of two symbols is rendered necessary:—

!=Seen by Mr Barclay in the parish indicated, and

dry=Dried specimens have been seen by Mr Barclay from the parish indicated.

{ Not native...escape from cultivation.

	Bellis.	Rathven.	Cullen.	Fordyce.	Boydrie.	Banff.	Gairrie.	Alvah	King-Edward.	Turriff.	Forglen.	Marnoch.	Inverkeithing.
ROSACEAE—Contd.													
<i>Pyrus Aria</i> , Ehrh.	1		1			1	0	1	0	*	*	*	*
<i>b. rupicola</i> , Syme	2												
<i>P. Aucuparia</i> , Ehrh.	3	1	1	1	1	1	1	1	1	1	1	1	1
<i>P. Malus</i> , Linn.	4			*		1		1			*		
<i>Crataegus Oxyacantha</i> , Linn.	5	1	1	1	1	1	1	1	1	1	1	1	1
SAXIFRAGACEAE.													
<i>Saxifraga oppositifolia</i> , Linn.	6						1						
<i>S. stellaris</i> , Linn.	7												
<i>S. umbrosa</i> , Linn.	8								1		1		*
<i>S. aizoides</i> , Linn.	9								0	0			
<i>S. granulata</i> , Linn.	10	1	0	*	*	1	1	1	*				
<i>S. hypnoides</i> , Linn.	11							1			0		
<i>Chrysosplenium oppositifolium</i> , Linn.	12		1	*	1	1	1	1	1	1	1	1	1
<i>C. alternifolium</i> , Linn.	13						1	0	1	1	0	*	1
<i>Parnassia palustris</i> , Linn.	14	*	1	1	1	1	1	1	*				
<i>Ribes Grossularia</i> , Linn.	15		*	*	1	0	1	0	0	0	*		
<i>R. alpinum</i> , Linn.	16					*							
<i>R. rubrum</i> , Linn.	17							1					*
<i>b. petracum</i> , (Sm.)	18												
<i>R. nigrum</i> , Linn.	19						1	0	0			*	
<i>R. sanguineum</i> , Pursh	20						1	1					
CRASSULACEAE.													
<i>Sedum roseum</i> , Scop.	21						1						
<i>S. Telephium</i> , Linn.	22						1	1	1				

	Bothiemay.	Cairnie.	Cabrach.	Kirknicael.	Inverayon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiuhill.	Grange.	Keith.	Botriphnie.	Mortlach.		
1	-	x				*			!	*	!			*		Generally planted.
2				0												
3	-	x	*	x	x	!	*	!	!	!	!	!	!	x	x	
4					*											
5	-	x	*			!	*	!	!	!	!	!	!	x	x	{ Generally planted—frequent in hedges.
6					*											
7		dry	x			*	*									
8					*											Alien or outcast.
9			x								0					
0																Nowhere common.
1						*										{ Occurs at Greenside with <i>S. oppositifolia</i> .
2	-	dry	x	x	!	*	!	!	!	!	!	!	!	*		Fairly common.
3		dry			*	*										Local.
4	-	x	dry	x	*	*	x		!	x	!	x	0			Rather common on damp coasts.
5	x	x	*	*	*	*	x	!	!	!	x	x	x		0	
6																
7	x	*			*				*							
8		*			*				!		*					
9		*			*											
0																
1																Cliffs between Tarlair and Gamrie.
2																Probably var. <i>Fabaria</i> , Wats.

	Bellie.	Rathven.	Onlien.	Fordyce.	Boyndie.	Banff	Gairrie.	Alvah.	King-Edward.	Turriff.	Forres.	Marnoch.	Inverkeithing.
CRASSULACEAE—Contd.													
<i>S. purpureum</i> , Tausch.	1										
<i>S. villosum</i> , Linn.	2						0	0			
<i>S. album</i> , Linn.	3						*				
<i>S. anglicum</i> , Huds.	4			1							
<i>S. acre</i> , Linn.	5	1	1	1	1	1	1	1			
<i>Sempervivum tectorum</i> , Linn.	...	6	1				1		*				
DROSERACEAE.													
<i>Drosera rotundifolia</i> , Linn.	7	1	1	x	1		0	1	0		1
<i>D. anglica</i> , Huds.	8						*	0			
<i>x rotundifolia</i>	9						0				
HALORAGACEAE.													
<i>Hippuris vulgaris</i> , Linn.	10	1					0	1	0	1	
<i>Myriophyllum spicatum</i> , Linn.	...	11											
<i>M. alterniflorum</i> , DC.	12	1		*	*		1	0	0	1	x
<i>Callitricha verna</i> , Linn., <i>aggr.</i>	...	13	1		*	1		1	1	1	0	*	1
<i>C. stagnalis</i> , Scop.	14	1	x	1		1	1	0	0	1	*
<i>C. intermedia</i> , Hoffm.	15	1			1	0	1	0	0		1
<i>C. autumnalis</i> , Linn.	16						*				x
LYTHRACEAE.													
<i>Peplis Portula</i> , Linn.	17		1	1	1	*	1		*	*	
<i>Lythrum Salicaria</i> , Linn.	18			1							
ONAGRACEAE.													
<i>Epilobium angustifolium</i> , Linn.	...	19		*			1	*				*	

ONAGRACEAE—Contd.

			Belle.	Rathven.	Cullen.	Fordyce.	Boydie.	Banff.	Gairnie.	Alvah.	King Edward.	Turriff.	Forres.	Marnoch.
<i>Epilobium hirsutum</i> , Linn.	...	...	1	!								0		
× <i>obscurum</i>	...	...	2											
<i>E. parviflorum</i> , Schreb.	...	...	3	x	—	—	—	—	—	—	—	0	0	—
<i>E. montanum</i> , Linn.	...	...	4	!	—	—	*	—	—	—	—	—	—	—
× <i>palustre</i>	...	...	5											
<i>E. obscurum</i> , Schreb.	...	...	6	!	!	x	!	—	—	—	—	0	0	—
<i>E. palustre</i> , Linn.	...	...	7	!	—	*	—	—	—	—	—	—	—	—
<i>E. alsinefolium</i> , Vill.	...	...	8											
× <i>montanum</i>	...	...	9											
× <i>obscurum</i>	...	...	10											
× <i>palustre</i>	...	...	11											
<i>E. anagallidifolium</i> , Lam.	...	...	12											
× <i>obscurum</i>	...	...	13											
<i>Circea alpina</i> , Linn.	...	...	14	0	x							0		
b. <i>intermedia</i> , (Ehrh.)	...	...	15								*			

UMBELLIFERAE.

<i>Hydrocotyle vulgaris</i> , Linn.	...	...	16	!	!	1	1	1	1	1	0	0	0	0
<i>Astrantia major</i> , Linn.	...	...	17											
<i>Sanicula europaea</i> , Linn.	...	...	18								0	0		
<i>Conium maculatum</i> , Linn.	...	...	19		1		*	1	1					
<i>Smyrnium Olusatrum</i> , Linn.	...	...	20			*								
<i>Apium inundatum</i> , Reichb. f.	...	...	21	!	x	—	!	!	!	!				
<i>Carum Carvi</i> , Linn.	...	...	22	!							!			*
<i>C. Segetum</i> , Benth. & Hook. f.	...	...	23				*							

		Bothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharn.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.		
1											!						Local.
2								*									
3				*	x	x	x	*	*	!	!	!	!	!	0		Local.
4	!	x	*	x	x	x	*	*	*	!	!	!	!	!	x	x	Rather common.
5																	
6	!	x	dry	x	x	x	*	*	!	!	!	!	!	x	x		Ditches and marshy ground.
7	!	x	dry	x	x	x	*	*	!	!	!	!	!	x	x		Ditches and marshy ground.
8																	
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	Rothesay.	Cairnie	Oabreach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Desford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1	-	x	*	x	*	-	*	-	-	-	-	-	x	x	Common.
2	-			x	x	-	*								Local.
3	-	x	*	x	x	!	*	!	!	!	!	!	x	x	Common.
4	-	x	*	*	*	!	*	!	!	!	!	!	x		{ Alien—common by streams and near houses.
5	*			*											Local.
6					*			!	dry				0		Local.
7					dry								x		Rare.
8	-	x	*	x	x	!	*	!	!	!	!	!	x	x	Common.
9															
10		dry	0												
11															Coast.
12		x			*										Escape or relic of cultivation.
13	-	x	*	x	x	!	*	!	!	!	!	!	x	x	Common.
14	x	*			*										
15															
16	-	x	*	x	x	!	*	!	!	!	!	!	x	x	Common.
17								!	!	x	x	x			Not so common as type.
18					*										Alien.
19		dry	x	*			!	!							Colonist?
20	x	*	*		x	x	x	!		*		0			Locally common.
21	x	*	*	*	*	*	!	!	!	*	x	x			Local.
22		dry		*	*					*					

	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Bethphnie.	Mortlach.	
1	-	x	dry	*	x	x	*	*	*	*	*	*	0		Rare.
2	-	x	*	*	*	*	*	*	*	*	*	*	x	x	Generally planted.
3													0		
4															
5												*			
6												x			
7	x		*	*	*	*	*	*	*	*	*	0		0	Local.
8	!	*	*	*	*	*	*	*	*	*	*	!	x	x	Generally planted.
9															
10	!											x	x		Planted.
11			*	!	*	!						0			
12												0			See note on old record.
13	!	x	dry	x	x	!	*	!	!	!	!	!	x	x	Very common.
14												0			
15	!	x	dry	x	x	!	x	!	!	!	!	!	x	x	Very common.
16															
17	*	x	*	*	x	*	x	!	x	x	x	x	x	x	
18												x			
19	!	x		x	x	*	x	!			!	!	x	*	Locally common.
20	x	*	0	*	*	*	x			0		x	x		
21	!	x	*	x	x	!	*	!	!	!	!	!	x	x	Very common.
22							x	x	x						Introduced with Distillery grain.

			Bellie.	Rathven.	Ottilien.	Fordyce.	Boyndie.	Braff.	Gairrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
RUBIACEAE—Contd.														
<i>Asperula odorata</i> , Linn.	...	...	1	0	x	*	0	*	0	0	!	0		
<i>A. arvensis</i> , Linn.	...	...		2										
<i>A. taurina</i> , Linn.	...	...		3										
<i>Sherardia arvensis</i> , Linn.	...	...	4		!	1	1	!	1	1	1	0		
VALERIANACEAE.														x
<i>Valeriana dioica</i> , Linn....	...	...		5										
<i>V. sambucifolia</i> , Mikan.	...	...	6	1					1	1	1	0	1	1
<i>V. pyrenaica</i> , Linn. ....	...	...	7		x				0	*				
<i>Valerianella olitoria</i> , Poll.	...	...	8				1			0				
<i>V. dentata</i> , Poll. ....	...	...	9							0				
DIPSACACEAE.														
<i>Scabiosa Succisa</i> , Linn.	...	...	10	!	1	1	1	1	1	1	1	1	1	1
<i>S. arvensis</i> , Linn. ....	...	...		11										
COMPOSITAE.														
<i>Eupatorium cannabinum</i> , Linn.	..		12						6					
<i>Solidago Virgaurea</i> , Linn.	...	...	13		!	x	1	1	1	1	1	0		
<i>Bellis perennis</i> , Linn. ....	...	...	14	!	1	1	1	1	1	1	1	1	1	1
<i>Erigeron acre</i> , Linn. ....	...	...		15										
<i>Filago germanica</i> , Linn.	...	...	16	!				1	1	0	0			
<i>F. minima</i> , Fr. ....	...	...	17	!	x			1	1		0		*	*
<i>Antennaria dioica</i> , Gaertn.	...	...	18				1		1	*				
<i>A. margaritacea</i> , Br. ....	...	...	19							*				
<i>Gnaphalium uliginosum</i> , Linn.	...	...	20	!	1		1	1	1	1	1	0	1	1
<i>G. sylvaticum</i> , Linn. ....	...	...	21					1	1	1	1	0	*	1

	Rothiemay.	Oairnle.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharn.	Desford.	Ordiqhull.	Grange.	Keith.	Botriphnie.	Mortlach.		
1		*	0	*		-			!	*		!		0		Rare.
2					x	x	x	x								Introduced with Distillery grain
3					*	!	*	x	!	!	0	*	x	x		
4												*				Rather common.
5																
6	!	x	*	x	x	!	*	!	!	!	x	!	x	x		Common.
7		*							!							
8										0						Rare.
9																
10	!	x	*	x	x	!	*	!	!	!	!	!	x	x		Common.
11	!	dry														Rare.
12																
13	dry	x	x	!	*	!				*	x	x				Local.
14	!	x	*	x	x	!	*	!	!	!	!	!	x	x		
15	0															
16	dry						*		!							Local—nowhere abundant
17						!	*	!				0				Locally common.
18	dry	x	x	*	*				!	!	*		0			
19																Planted.
20	!	x				!	*	!	!	x	x	x	*			Locally common.
21	!	dry	x	x	*	*	x	!	x	0	*	x	0			Locally common.

	Bellie.	Rathven.	Oullen.	Fordyce.	Boyndie.	Banff.	Gairrie.	Alvah.	King-Edward.	Turiff.	Forslen.	Macneoch.
COMPOSITAE—Contd.												
<i>G. supinum</i> , Linn.	1											
<i>Bidens cernua</i> , Linn.	2								0			
<i>Achillea Millefolium</i> , Linn.	3	!	!	!	!	!	!	!	!	!	!	
<i>A. Ptarmica</i> , Linn.	4	!	!	!	!	!	!	!	!	!	!	
<i>A. tomentosa</i> , Linn.	5											
<i>Anthemis arvensis</i> , Linn.	6	x										
<i>A. Cotula</i> , Linn.	7	!		*	*							
<i>Chrysanthemum segetum</i> , Linn.	8			*	!	!	!	!	!	!	0	*
<i>C. Leucanthemum</i> , Linn.	9	!	!	!	!	!	!	!	!	!	!	
<i>C. Parthenium</i> , Bernh.	10				*	!	0	!	!	0		
<i>C. macrophyllum</i> , Waldst. & Kit....	11											
<i>Matricaria inodora</i> , Linn.	12	!	!	!	!	!	!	!	!	!	0	*
<i>M. maritima</i> , Linn.	13	!	!	!	!	!	!	!	!	!		
<i>M. suaveolens</i> , Buchenau	14	!										
<i>Tanacetum vulgare</i> , Linn.	15								0	0	0	
<i>Artemisia Absinthium</i> , Linn.	16											
<i>A. vulgaris</i> , Linn.	17	!	!	!	!	!	!	!	x	0		
<i>Tussilago Farfara</i> , Linn.	18	!	!	!	!	!	!	!	!	!	!	
<i>Petasites ovatus</i> , Hill	19			*	!	!	0	!	0	!	!	*
<i>P. albus</i> , Gaertn.	20							!	1		x	
<i>Doronicum Pardalianches</i> , Linn.	21					!						
<i>D. plantagineum</i> , Linn.	22					0						
<i>Senecio vulgaris</i> , Linn.	23	!	!	!	!	!	!	!	!	!	!	
<i>S. sylvaticus</i> , Linn.	24	!	!	!	!	!	!	!	!	0	0	

	Bothiemay.	Gairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskfard.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Morthach.	
1	-	x	*	x	x	1	*	*	1	-	-	1	x	x	
2	-	x	*	x	x	1	*	*	1	-	-	1	x	x	
3	-	x	*	x	x	1	*	*	1	-	-	1	x	x	
4	-	x	*	x	x	1	*	*	1	-	-	1	x	x	
5	-	x	*	x	x	1	*	*	1	-	-	1	x	x	
6	-	x	*	x	x	1	*	*	1	-	-	1	x	*	
7	-	x	*	x	x	1	*	*	1	-	-	1	x	*	
8	*	*	*	x	*	1	*	*	1	1	0	x	*	*	Colonist.
9	-	x	*	x	*	1	*	*	1	1	1	x	x	x	Common.
10	-	x	*	x	x	1	*	*	1	-	-	1	x	x	Alien.
11	-	x	*	x	x	1	*	x	1	1	1	x	x	x	
12	-	x	*	x	x	1	*	x	1	1	1	x	x	x	Common.
13	-	x	*	x	x	1	*	*	1	-	-	1	x	x	Coast.
14	-	x	*	x	x	1	*	*	1	-	-	1	x	x	Denizen.
15	-	*	*	x	x	1	*	*	1	1	x	*	x	0	Alien.
16	-	x	x	x	x	1	*	x	1	-	-	1	x	x	
17	-	x	x	x	x	1	*	x	1	0	-	x	*		Local.
18	-	x	*	x	x	1	*	1	1	1	1	x	x		Very common.
19	-	*	*	x	x	1	*	1	1	1	1	x	*		Frequent by streams.
20	-	x	*	x	x	1	*	x	1	-	-	1	x		Alien.
21	-	*	*	x	x	1	*	*	1	-	-	1	x		Alien.
22	-	x	*	x	x	1	*	1	1	-	-	1	x		
23	!	x	*	x	x	1	*	1	1	1	1	1	x	x	Very common
24	x	*	*	x	x	1	*	*	x	0	*	*	*		Common.

	Bellie.	Bathven.	Cullen.	Fordyce.	Boydrie.	Banff.	Gairnie.	Alvah.	King-Edward.	Turriff.	Forres.	Marnoch.
COMPOSITAE—Contd.												
<i>Senecio viscosus</i> , Linn.	1											
<i>S. Jacobaea</i> , Linn.	2	!	!	!	!							
<i>S. aquaticus</i> , Hill	3	!	x	!	!							
<i>S. sarracenicus</i> , Linn.	4								!			
<i>Arctium minus</i> , Bernh.	5	!	x			!	!	!	!			
<i>A. spp. agg.</i>	6	!		*	*	!	!	0				*
<i>Cnicus lanceolatus</i> , Willd.	7	!	!	!	!	!	!	!	!			
<i>C. palustris</i> , Willd.	8	!	!	!	!	!	!	!	!			
<i>C. heterophyllus</i> , Willd.	9	!										
<i>C. arvensis</i> , Hoffm.	10	!	!	!	!	!	!	!	!			
var. <i>incanus</i> , Fisch.	11											
<i>Saussurea alpina</i> , DC.	12											
<i>Centaurea nigra</i> , Linn.	13	!	!	!	!	!	!	!	!			
<i>C. Cyanus</i> , Linn.	14		*	*	!	!	!	0	!		*	
<i>Cichorium Intybus</i> , Linn.	15				!	!	!	!			*	
<i>Lapsana communis</i> , Linn.	16	!	!		!	!	!	!	!			
<i>Crepis capillaris</i> , Wallr.	17	!	!	!	!	!	!	!	!			
<i>C. mollis</i> , Aschers.	18											
<i>C. paludosa</i> , Moench.	19			!	!	!	!	!	!			
<i>Hieracium Pilosella</i> , Linn.	20	!	!	!	!	!	!	!	!			
<i>c. nigrescens</i> , Fr.	21											
<i>d. concinnum</i> , F. J. Hanb.	22											
<i>H. aurantiacum</i> , Linn.	23							0				

COMPOSITAE—*Contd.*

<i>H. anglicum</i> , Fr.	...	...	1
b. <i>acutifolium</i> , Backh.	...	...	2
<i>H. iricum</i> , Fr.	...	...	3
<i>H. holosericeum</i> , Backh.	...	...	4
<i>H. eximium</i> , Backh.	...	...	5
b. <i>tenellum</i> , Backh.	...	...	6
<i>H. gracilentum</i> , Backh.	...	...	7
<i>H. petiolatum</i> , Elfstrand	...	...	8
<i>H. lingulatum</i> , Backh.	...	...	9
<i>H. chrysanthum</i> , Backh.	...	...	10
<i>H. nigrescens</i> , Willd.	...	...	11
c. <i>gracilifolium</i> , F. J. Hanb.	...	...	12
<i>H. Schmidii</i> , Tausch.	...	...	13
c. <i>crinigerum</i> , Fr.	...	...	14
<i>H. caledonicum</i> , F. J. Hanb.	...	...	15
<i>H. argenteum</i> , Fr.	...	...	16
b. <i>septentrionale</i> , F. J. Hanb.	...	...	17
<i>H. Sommerfeltii</i> , Lindeb.	...	...	18
<i>H. pseudonosmoides</i> , Dahlst.	...	...	19
<i>H. sylvaticum</i> , Gouan.	...	...	20
f. <i>prolixum</i> , Dahlst.	...	...	21
<i>H. variicolor</i> , Dahlst.	...	...	22
<i>H. serratifrons</i> , Almq.	...	...	23
b. <i>Stenstroemii</i> , Dahlst.	...	...	24

Bellie.

Bathven.

Cullen.

Fordyce.

Boydrie.

Banff.

Gamrie.

Alvah.

King-Edward.

Turriff.

Forulen.

Marnoch.

	Rothiemay.	Cabrach.	Kirkmichael.
1		0	0
2		0	0
3		0	0
4		0	0
5		0	0
6		0	0
7		0	0
8		0	0
9		0	0
0		0	0
1		0	0
2		0	0
3		0	0
4		0	0
5		0	0
6		0	0
7		0	0
8		0	0
9		0	0
0		0	0
1		0	0
2		0	0
3		0	0
4		0	0
5		0	0
6		0	0
7		0	0
8		0	0
9		0	0
0		0	0
1		*	
2			
3			
4			
5			
6			
7			
8			
9			
0			

Coast in Gamrie—rare.

Coast in Gamrie—rare.

	Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gairrie.	Alvah.	King-Edward.	Turriff.	Forres.	Marnoch.
COMPOSITAE—Contd.												
<i>H. murorum</i> , Linn.	1						0					
<i>H. eucophyllum</i> , Stenstr.	2						!					
<i>H. euprepes</i> , F. J. Hanb.	3											
<i>c. clivicolum</i> , F. J. Hanb.	4											
<i>H. caesium</i> , Fr.	5					0						
<i>H. vulgatum</i> , Fr.	6	!	!	x		!	0	!	0	0		
<i>b. sejunctum</i> , W. R. Linton	7											
<i>H. angustatum</i> , Lindeb.	8											
<i>b. elatum</i> , Lindeb.	9											
<i>H. pinnatifidum</i> , Lonnr.	10											
<i>H. prenanthoides</i> , Vill.	11											
<i>H. corymbosum</i> , Fr.	12											
<i>H. auratum</i> , Fr.	13											
<i>H. boreale</i> , Fr.	14					!	0					
<i>Hypochaeris radicata</i> , Linn.	15	!	!	!	!	!	!	!	!	!	!	
<i>Leontodon hispidum</i> , Linn.	16						?					
<i>L. autumnale</i> , Linn.	17	!	!	!	!	!	!	!	!	!	!	
<i>c. sordidum</i> , Bab.	18			x	!					x		
<i>Taraxacum officinale</i> , Weber	19	!	!	!	!	!	!	!	!	!	!	
<i>T. palustre</i> , DC.	20					!		0				
<i>Sonchus oleraceus</i> , Linn.	21	!	!	!	!	!	!	!	!	0	*	*
<i>S. asper</i> , Hill	22	!	!	!	!	!	!	!	!	0	x	
<i>S. arvensis</i> , Linn.	23	!	!	!	!	!	!	!	!	0		
<i>Helminthia echooides</i> , Gaertn....										dry		

			Belie.	Bathven.	Cullen.	Forsythe.	Boyndie.	Banff.	Gairrie.	Aivah	King Edward.	Turriff.	Forres.	Marnoch.
CAMpanulaceae.														
<i>Lobelia</i> Dortmanna, Linn.	...	...	1											
<i>Campanula latifolia</i> , Linn.	...	...	2	0	0						1	0	*	
<i>C. glomerata</i> , Linn.	...	...	3											
<i>C. rapunculoides</i> , Linn.	...	...	4									x		
<i>C. rotundifolia</i> , Linn.	...	...	5	!	!	!	!	!	!	!	1	1	1	
<i>C. persicifolia</i> , Linn.	...	...	6	x										
<i>C. Rapunculus</i> , Linn.	...	...	7											
Vacciniaceae.														
<i>Vaccinium Vitis-Idaea</i> , Linn.	...	...	8	0	0			0	0	0		0		
<i>V. Myrtillus</i> , Linn.	...	...	9	!	!	!	!	!	!	!	1	1	1	
<i>Oxycoccus quadripetala</i> , Gilib.	...		10	0										
Ericaceae.														
<i>Arctostaphylos Uva-ursi</i> , Spreng.	...		11											
<i>Calluna vulgaris</i> , Hull	...	...	12	!	!	!	!	!	!	!	1	1	1	
<i>Erica Tetralix</i> , Linn.	...	...	13	!	!	!	!	!	!	!	1	0	1	
<i>E. cinerea</i> , Linn.	...	...	14	!	!	!	!	!	!	!	1	1	1	
<i>Azalea procumbens</i> , Linn.	...	...	15											
<i>Pyrola media</i> , Sw.	...	...	16						x	0		0		
<i>P. rotundifolia</i> , Linn.	...	...	17									0		
<i>P. minor</i> , Linn.	...	...	18	!		*				1		0		
<i>P. secunda</i> , Linn.	...	...	19							0		0		
<i>Moneses uniflora</i> , A. Gray	...	...	20											
Plumbaginaceae.														
<i>Armeria maritima</i> , Willd.	...	...	21	!	!	!	!	!	!	!				

	Rothiemay.	Cairnie.	Gabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Desford.	Ordighill.	Grange.	Keith.	Botriphnie.	Mortlach.		
1			0													
2	*		*	*	!	*	*	x			*		x		Alien.	
3																
4						*										
5	!	x	*	x	x	!	*	!	!	!	!	!	x	x		Very common.
6																
7						*										
8	x	dry	x	x	*	*	*	!	!	!	!	!	x	x		
9	!	x	*	x	x	!	*	!	!	!	!	!	x	x		Very common.
10		dry			*	dry										
11	*	dry	x	x	*	dry	!						x			
12	!	x	*	x	x	!	*	!	!	!	!	!	x	x		Very common.
13	!	x	*	x	x	!	*	!	!	!	!	!	x	x		Common.
14	!	x	*	x	x	!	*	!	!	!	!	!	x	x		Common.
15		dry	x		dry								0			
16	!	x	*			*					*		0			Rare.
17																
18	*			!	*	!	!	!	!	!	!	x	0			Local.
19	0		*			dry							0			
20	0												0			
21	*	x														{ The Kirkmichael plant is the mountain form.

	Bellie.	Bathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forres.	Marnoch.
PRIMULACEAE.												
<i>Primula vulgaris</i> , Huds.	1	!	!	!	!	!	!	!	0	0	0	—
<i>P. veris</i> , Linn.	2						0	—	*	*		
<i>P. elatior</i> , Jacq.	3						0					
<i>Lysimachia Nummularia</i> , Linn.	4									*		
<i>L. nemorum</i> , Linn.	5			*		!	0	!	0	0	!	—
<i>Trientalis europaea</i> , Linn.	6	!	!	0	!	!	!	!	!	!	0	—
<i>Glaux maritima</i> , Linn.	7	!	!	!	!	!	!	!	!	!	0	!
<i>Anagallis arvensis</i> , Linn.	8			!	*	!	!	!	0			
<i>A. foemina</i> , Mill.	9											
<i>A. tenella</i> , Murr.	10					!			0			
OLEACEAE.												
<i>Fraxinus excelsior</i> , Linn.	11	!	!	!	!	!	!	!	!	!	!	—
<i>F. Ormus</i> , Linn.	12						!					
<i>Ligustrum vulgare</i> , Linn.	13	!		!				!	!	!	!	*
APOCYNACEAE.												
<i>Vinca major</i> , Linn.	14											
<i>V. minor</i> , Linn.	15						!	!	0		*	
GENTIANACEAE.												
<i>Gentiana Amarella</i> , Linn.	16				0							
<i>G. campestris</i> , Linn.	17	!		!	*	!	!					
<i>G. baltica</i> , Murb.	18	x					0					
<i>Menyanthes trifoliata</i> , Linn.	19	!			!	!	!			0		*
<i>Nymphoides peltatum</i> , Rendle & Britten	20									0		

		Bellie.	Rathven.	Orkney.	Fordyce.	Boyndie.	Banff	Gairrie.	Aivah	King-Edward.	Turriff.	Forres.	Marnoch.
POLEMONIACEAE.													
<i>Polemonium caeruleum</i> , Linn.	...	1	x										
BORAGINACEAE.													
<i>Cynoglossum officinale</i> , Linn.	...	2			0								*
<i>Symphytum officinale</i> , Linn.	...	3						x					
<i>b. patens</i> , (Sibth.)	...	4											
<i>S. tuberosum</i> , Linn.	...	5											
<i>S. peregrinum</i> , Ledeb.	...	6				0	*			0	dry	*	
<i>Trachystemon orientale</i> , D. Don	...	7											*
<i>Anchusa sempervirens</i> , Linn.	...	8	x										
<i>Borago officinalis</i> , Linn.	...	9	0	0									*
<i>Lycopsis arvensis</i> , Linn.	...	10	1	1	1					0	*	*	*
<i>Pulmonaria officinalis</i> , Linn.	...	11											
<i>Mertensia maritima</i> , Gray	...	12	1	1	1	1	0	1					
<i>Myosotis cespitosa</i> , Schultz	...	13	1	x	1	1	1	1	1	0	0	*	1
<i>M. scorpioides</i> , Linn.	...	14		*	*	1	1	0	1	0	0	*	1
<i>b. strigulosa</i> , (Reichb.)	...	15											
<i>M. repens</i> , G. & D. Don	...	16	1	1	1	1	1	1	1	1	1	1	1
<i>M. sylvatica</i> , Hoffm.	...	17								0			
<i>M. arvensis</i> , Hill	...	18	1	1	1	1	1	1	1	1	1	1	1
<i>M. collina</i> , Hoffm.	...	19	1			1	0	0	0				
<i>M. versicolor</i> , Sm.	...	20	1	1	*	1	1	1	1	0	0	1	*
<i>Lithospermum officinale</i> , Linn.	...	21	*										
<i>L. arvense</i> , Linn.	...	22								0			
<i>Echium vulgare</i> , Linn.	...	23								0			

	Bellie.	Bath ven.	Oullen.	Fordyce.	Boydrie.	Banff.	Gairnie.	Alvah	Ring Edward.	Turriff.	Forres.	Marnoch.
CONVOLVULACEAE.												
<i>Calystegia sepium</i> , Br.	...	1		*					*			
<i>Convolvulus arvensis</i> , Linn.	...		2							*	*	
SOLANACEAE.												
<i>Solanum Dulcamara</i> , Linn.	...	3		*			0	*	x			
<i>S. nigrum</i> , Linn.	...	4			0	!	*					
<i>Hyoscyamus niger</i> , Linn.	...	5		*	!							
SCROPHULARIACEAE.												
<i>Verbascum Thapsus</i> , Linn.	...	6										
<i>V. pulverulentum</i> , Vill.	...	7										
<i>V. Blattaria</i> , Linn.	...	8										
<i>Linaria Cymbalaria</i> , Mill.	...	9		*	!	!	*	x				
<i>L. Elatine</i> , Mill.	...	10										
<i>L. repens</i> , Mill.	...	11						*				
<i>L. vulgaris</i> , Mill.	...	12	0	*	*	0						
<i>Scrophularia nodosa</i> , Linn.	...	13	!	x	!	!	!	!	!	!	!	!
<i>Mimulus Langsdorfi</i> , Donn.	...	14	!		!	!	!	!	!	!	!	!
var. <i>guttatus</i> , DC.	...	15										
<i>M. moschatus</i> , Dougl.	...	16	!									
<i>Digitalis purpurea</i> , Linn.	...	17	!	!	!	!	!	!	!	!	!	!
<i>Veronica hederefolia</i> , Linn.	...	18	!	*	!	!	!	!	0	!		
<i>V. didyma</i> , Ten.	...	19					!				0	
<i>V. agrestis</i> , Linn.	...	20	!	!	!	!	!	!	0	0	0	!
<i>V. Tournefortii</i> , C. Gmel.	...	21	!	!	!	!	!	!	0	*		
<i>V. arvensis</i> , Linn.	...	22	x	!	!	!	!	!	0	!	!	

	Rothiemay.	Cairnie.	Cabrach.	Kirknewton.	Inveravon.	Aberlour.	Knockando.	Boharm.	Desktord.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1			*		*			*		*					
2			*			*		*		*					
3						*					*				
4						*						*			Casual.
5						*									
6						*									
7						*									
8						*									
9						*									
10						*									
11						*									
12						*									
13						*									
14						*									
15						*									
16						*									
17						*									
18						*									
19						*									
20						*									
21						*									
22						*									
23						*									
24						*									
25						*									
26						*									
27						*									
28						*									
29						*									
30						*									
31						*									
32						*									
33						*									
34						*									
35						*									
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	Bellie.	Rathven.	Cullen.	Fordyce.	Boydrie.	Banff.	Gairnie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
SCROPHULARIACEAE — Contd.												
<i>Bartsia Odontites</i> , Huds.	1	x	1	1	1	1	—	—	—	0	0	—
<i>Pedicularis palustris</i> , Linn.	2	1	1	1	1	1	—	—	—	0	0	—
<i>P. sylvatica</i> , Linn.	3	1	1	1	1	1	—	—	—	0	0	—
<i>Rhinanthus major</i> , Ehrh.	4	—	—	—	—	—	—	—	—	—	—	—
<i>c. apterus</i> Fr.	5	—	—	—	—	—	—	—	—	—	—	—
<i>R. Crista-galli</i> , Linn.	6	1	1	1	1	1	—	—	—	—	—	—
<i>R. borealis</i> , Druce	7	—	—	—	—	—	—	—	—	—	—	—
<i>Melampyrum pratense</i> , Linn.	8	—	—	—	—	—	—	—	0	0	—	—
<i>d. montanum</i> , Johnst.	9	—	—	—	—	—	—	—	—	—	—	—
<i>e. hians</i> , Druce	10	—	—	—	—	—	—	—	—	—	—	—
<i>M. sylvaticum</i> , Linn.	11	—	—	—	—	—	—	—	—	—	—	—
LENTIBULARIACEAE.												
<i>Utricularia vulgaris</i> , Linn.	12	—	—	—	—	—	*	—	—	—	—	—
<i>U. minor</i> , Linn.	13	!	—	—	—	—	0	—	—	—	—	—
<i>U. intermedia</i> , Hayne	14	—	—	—	—	—	—	—	—	—	—	—
<i>Pinguicula vulgaris</i> , Linn.	15	1	1	1	1	1	! 0	0	0	0	—	—
LAMIACEAE.												
<i>Mentha rotundifolia</i> , Huds.	16	—	—	—	x	—	—	—	—	—	—	—
<i>M. alopecuroides</i> , Hull	17	—	—	—	—	—	—	—	—	—	—	—
<i>M. longifolia</i> , Huds.	18	—	—	—	—	—	—	—	—	—	—	—
<i>M. spicata</i> , Linn.	19	—	—	—	—	—	!	—	—	—	—	—
<i>M. piperita</i> , Linn.	20	—	—	x	—	—	! 0	0	0	—	—	—

	Bellie	Bathven.	Cullen.	Fordyce.	Roynie.	Banff.	Gairrie.	Alvah.	King Edward.	Turriff.	Forres.	Marnoch.
LABIATAE—Contd.												
<i>Lamium amplexicaule</i> , Linn.	1	!	!	*	1	1	1	0	0	0	0	0
<i>L. moluccifolium</i> , Fr.	2		!	!	1	1	!	*	1	1	1	1
<i>L. purpureum</i> , Linn.	3	!	!	!	1	1	!	!	1	1	1	1
<i>L. maculatum</i> , Linn.	4	0	x		1	!	x	1	0	0		
<i>L. album</i> , Linn.	5		!	*	*	1		1	0			
<i>Teucrium Scorodonia</i> , Linn.	6	!						0		0		
<i>Ajuga reptans</i> , Linn.	7		!	*	*	1	1	1	0	0	*	!
PLANTAGINACEAE.												
<i>Plantago major</i> , Linn.	8	!	!	!	1	1	!	1	1	1	1	1
<i>P. media</i> , Linn.	9							!				*
<i>P. lanceolata</i> , Linn.	10	!	!	!	1	1	!	1	1	1	1	1
<i>P. maritima</i> , Linn.	11	!	!	!	1	1	1	1	1	1	1	*
<i>P. Coronopus</i> , Linn.	12	!	!	!	1	1	1	1	1	1	1	1
<i>Littorella uniflora</i> , Aschers.	13		x	x				0				
ILLECEBRACEAE.												
<i>Scleranthus annuus</i> , Linn.	14	!	!	x	x	1	1	0	1	0	*	*
CHENOPodiACEAE.												
<i>Chenopodium album</i> , Linn.	15			*	*	1	1	1	1	0		1
<i>b. viride</i> , (Linn.)	16			x	x						x	x
<i>c. paganum</i> , (Reichb.)	17	x	x	x	x	x					x	
<i>C. Bonus-Henrius</i> , Linn.	18							0	0	1	0	*
<i>Atriplex patula</i> , Linn.	19	!	!	!	!	1	1	1	1	1	0	x
<i>b. erecta</i> , (Huds.)	20							0	0			
<i>A. hastata</i> , Linn.	21		x	x	x							

					Bellie.	Rathven.	Cullen.	Fordyce.	Boydrie.	Banff.	Gairnie.	Alvah	King Edward.	Turriff.	Forres.	Marnoch.	
CHENOPodiACEAE—Contd.																	
A.	Babingtonii,	Woods	...	...	1	1	—	—	—	—	—	—	—	—	—	—	
b.	virescens,	Lange	...	...	2	—	x	x	—	—	—	—	—	—	—	—	
A.	calotheca,	Fr.	...	...	3	—	—	—	—	—	—	—	—	—	—	—	
A	laciniata,	Linn.	...	...	4	—	—	—	1	—	—	—	—	—	—	—	
	Salsola	Kali,	Linn.	...	5	0	1	1	1	—	—	—	—	—	—	—	—
POLYGONACEAE.																	
	Polygonum	Convolvulus,	Linn.	...	6	1	—	1	1	1	1	1	1	1	1	1	x
	P.	aviculare,	Linn.	...	7	1	1	1	1	1	1	1	1	1	1	1	1
	P.	equisetiforme,	Sibth. & Sm.	...	8	—	—	—	—	—	—	—	—	—	—	—	—
	P.	Hydropiper,	Linn	...	9	—	—	—	—	—	—	—	—	*	—	—	—
	P.	Persicaria,	Linn.	...	10	1	1	1	1	1	1	1	1	1	1	1	1
	P.	lapathifolium,	Linn.	...	11	—	x	—	—	—	—	—	0	0	0	0	0
	P.	amphibium,	Linn....	...	12	1	—	—	*	1	1	1	0	0	0	x	1
	b.	terrestris,	Leers	...	13	—	x	—	1	1	1	1	1	1	x	x	1
	P.	Bistorta,	Linn.	...	14	—	—	—	*	0	1	—	—	—	x	x	*
	P.	viviparum,	Linn.	...	15	—	—	—	—	—	0	0	0	0	0	0	0
	Fagopyrum	sagittatum,	Gilib.	...	16	—	—	—	—	—	—	—	—	—	—	—	—
	Oxyria	digyna,	Hill	...	17	—	—	—	—	—	—	—	—	—	—	—	—
	Rumex	conglomeratus,	Murr.	...	18	1	—	—	—	—	—	—	—	—	—	—	—
	R.	sanguineus,	Linn.	...	19	—	—	x	x	—	—	—	—	x	—	—	—
	b.	viridis,	(Sibth.)	...	20	—	—	—	—	—	—	0	—	—	—	—	—
	R.	obtusifolius,	Linn.	...	21	1	1	1	1	*	1	1	1	1	1	1	1

	Rothesiemay.	Cairnie.	Oabrech.	Kirkmichael:	Inveravon.	Abenlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1															Coast.
2															
3															
4															Sandy coast—very rare.
5															Sandy coast—very rare.
6	dry	x	*	x	x	!	*	!	!	!			x		Colonist.
7	!	x	*	x	x	!	*	!	!	!		x	x	x	{ Common—var. <i>arenarium</i> occurs on coast.
8					x		x								
9				*	x		x								Rare.
10	!	x	*	x	x	!	*	!	!	!	!	x	x	*	Common.
11					x	*							x		
12	dry									0			0		Not so common as var. <i>terrestre</i> .
13	dry	x				!	x	x		!	x	x	x		Frequent.
14		0	*	*	*				!		*				Denizen.
15	dry	x	x	*	*		!			!	!		0		{ On limestone at the lower elevations.
16															Casual.
17		x	x	x									0		
18	*	*	*	*	*								*		Frequent on banks of R. Deveron.
19													*		
20			*										*		
21	!	x	dry	x	x	*	!	!	x	x	x	x	x	x	

	Bellie.	Rathven.	Cullen.	Fordyce.	Boydrie.	Banff.	Gairnie.	Alvah.	King Edward.	Turiff.	Forres	Marnoch.
POLYGONACEAE — Contd.												
<i>R. crispus</i> , Linn.	1	!	!	—	*	—	—	—	—	—
× <i>domesticus</i>	2	—	—	—	—	—	—	—	—	—
× <i>obtusifolius</i>	3	!	x	x	x	!	x	0	0	0
× <i>conspersus</i>	4	—	—	—	—	—	—	x	—	—
<i>R. domesticus</i> , Hartm.	5	!	!	!	!	!	!	!	!	—
× <i>obtusifolius</i> , (<i>conspersus</i> , Hartm.)	6	—	x	x	—	0	0	0	0	1
× <i>conspersus</i>	7	—	—	—	x	x	x	x	—	—
<i>R. Hydrolapathum</i> , Huds.	8	—	* *	—	0	—	—	—	—	—
<i>R. alpinus</i> , Linn.	9	—	—	—	—	*	—	0	*	—
<i>R. Acetosa</i> , Linn.	10	!	!	!	!	!	!	!	!	—
<i>R. Acetosella</i> , Linn.	11	!	!	!	!	!	!	!	!	—
THYMELEACEAE.												
<i>Daphne Mezereum</i> , Linn.	12	—	—	—	—	—	—	—	—	—
ELAEAGNACEAE.												
<i>Hippophae rhamnoides</i> , Linn.	13	—	!	!	!	—	—	—	—	*
EUPHORBIACEAE												
<i>Euphorbia Helioscopia</i> , Linn.	14	!	!	!	!	!	!	!	0	—
<i>E. dulcis</i> , Linn.	15	—	—	—	—	?	—	—	—	—
<i>E. Peplue</i> , Linn.	16	—	*	*	!	—	—	—	—	—
<i>E. exigua</i> , Linn.	17	—	—	0	—	—	—	—	—	—
<i>E. Cyparissias</i> , Linn.	18	—	—	—	—	—	*	—	—	—
<i>Buxus sempervirens</i> , Linn.	19	—	—	—	—	—	—	—	—	—
<i>Mercurialis perennis</i> , Linn.	20	!	—	!	!	!	!	!	1	1

					Beillie.	Bathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gairnie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.	Inverkeithme.
URTICACEAE.																	
<i>Ulmus glabra</i> , Huds.	...	...	...	1	!	!	x	!	-	-	-	-	-	-	-	*	x
<i>U. campestris</i> , Linn.	...	...	...	2				*	*	-	-	-	-	-	-	-	-
<i>Humulus Lupulus</i> , Linn.	...	...	...	3				!	-	-	-	-	-	-	-	-	-
<i>Urtica dioica</i> , Linn.	...	...	...	4	!	!	!	!	!	!	!	!	0	*	*	*	*
<i>b. angustifolia</i> , Wimm. & Grab.				5													
<i>U. urens</i> , Linn.	...	...	...	6	!	!	!	!	!	!	!	!	0	0	0	*	*
<i>Parietaria ramiflora</i> , Moench.	...	...	...	7				!	!	!	!	!		0	0	0	0
<i>Cannabis sativa</i> , Linn.	...	...	...	8													
MYRICACEAE.																	
<i>Myrica Gale</i> , Linn.	...	...	...	9			*						0			0	
CUPULIFERAE.																	
<i>Betula alba</i> , Linn.	...	...	...	10	!	!	!	!	*	!	0	1	0	1	1	1	*
<i>B. tomentosa</i> , Reith. & Abel	...	...	...	11		x				0						x	
<i>B. nana</i> , Linn.	...	...	...	12													
<i>Alnus rotundifolia</i> , Mill.	...	...	...	13	!		!	!	!	!	0	1	1	1	1	1	*
<i>Carpinus Betulus</i> , Linn.	...	...	...	14	!							1					*
<i>Corylus Avellana</i> , Linn.	...	...	...	15						1	0	1	0	0	1	1	*
<i>Quercus Robur</i> , Linn. <i>agg.</i>	...	...	...	16	!	0	!	*	*	!	!	1	1	0	1	1	*
<i>a. pedunculata</i> , (Ehrh.)	...	...	...	17		!	!	!	!	!	!	1	1	0	1	1	*
<i>c. sessiliflora</i> , (Salisb.)	...	...	...	18			!										
<i>Castanea sativa</i> , Mill.	...	...	...	19								0	0				
<i>Fagus sylvatica</i> , Linn.	...	...	...	20	!	!	!	!	!	!	!	1	1	1	1	1	*

	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1	!	x		x	x	*	*		-	-	-	-	x	*	Generally planted.
2															Planted.
3	x				x										Naturalised.
4	!	x	*	x	x	!	*	!	!	!	!	!	x	x	
5	1														
6	!	x		x	x	x	*	!	x	!	0	*	x		
7					x										On old Castle at Boyne.
8															
9	!	x		x	x	!	*		!	x			*		In bogs.
10		x	x	x	x	*	*	!	!	!	!	!	x	x	
11	x		x									x			
12			0												
13	!	x	*	x	x	!	*	!	!	!	!	x	x	x	Near water.
14						*	*					*		*	
15	x	x	*	x	x	*	*	x	1	0	1	x	x		
16			*						0	0				*	
17	!	x		x	*	x	!	!	!	!	!	!	x	x	
18				*		!					x	x			
19	x			*		!					*	x			
20	!	x		x	x	!	*	!	!	!	!	!	x	x	

	Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gairnie.	Avah	King-Edward.	Turriff.	Forres.	Martooch.
SALICACEÆ.												
<i>Salix pentandra</i> , Linn.	1							0				
<i>S. triandra</i> , Linn.	2											
<i>S. fragilis</i> , Linn.	3	x	*						0	0	0	
<i>Salix alba</i> , Linn.	4	x	*	*	*			0	0	0	0	
× <i>triandra</i>	5									x		
<i>S. purpurea</i> , Linn.	6	x	x	x	!		0	0	0	x	x	
<i>S. viminalis</i> , Linn.	7	x	x	x	!		0	0	0	0	0	*
<i>S. caprea</i> , Linn.	8						0	*	x	0	1	
× <i>phylicifolia</i>	9											
<i>S. aurita</i> , Linn.	10		x				0	0	0	0	x	1
× <i>cinerea</i>	11						!?	!?				
× <i>phylicifolia</i>	12											
× <i>repens</i>	13											
<i>S. cinerea</i> , Linn.	14	!	!	!			1	!		0	1	
<i>S. phylicifolia</i> , Sm.	15		*	*								x
<i>S. repens</i> , Linn.	16	!	!	!	!	!	1	!		0		
<i>S. herbacea</i> , Linn.	17											
<i>Populus alba</i> , Linn.	18		*	*	!	!				*		
<i>P. tremula</i> , Linn.	19		x				!	0?	x	*	*	
<i>P. nigra</i> , Linn.	20	!	!	!			!	!	0	0	!	
EMPETRACEÆ.												
<i>Empetrum nigrum</i> , Linn.	21	1	1	1	1	1	1	1	0	0	1	1
CONIFERÆ.												
<i>Juniperus communis</i> , Linn.	22	x	0					0				x

		Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiqhull.	Grange.	Keith.	Botriphnie.	Mortlach.		
1	12	x	x	x													Planted.
3		x	x					*	x	x	x	x	x	x	x		Planted.
4		x				*				x			x	x	*		Planted.
5																	
6		x					*		x	x	x				x		
7		x	x	*				x		x	x	x	x	x	x	x	
9		x	x	*	x	x	x	*					x	x	*		
10		x	x	x	x	x	x	x	x	x	!	x	x	x	x	x	
11											!?						
12				0													
13																	
14		!	x	x	x	x	x			!	!	!	x	x	x		
15				x													
16		!	x	x	x	x	x				!	!	x	x	x		
17		dry	x		dry												
18						*		!									Planted.
19		x	dry	x		*	*			*		x		*			
20		!				*	x	!	!		!		x				Planted.
21		!	x	dry	x	x	!	*	!	!	!	!	!	x	x		Common on heaths.
22		!	x	dry	x	x	*	*	x	!	!	!	*	*			

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gairrie.	Avah.	King-Edward.	Turriff.	Forres.	Marnoch.
CONIFERAE - Contd.														
<i>J. sibirica</i> , Burgsdorf...	...	...	1	1?	1?	1?	1?	1	1	1	1	1	1	1
<i>Taxus baccata</i> , Linn.	...	...	2	1	1	1	1	1	1	1	1	1	1	1
<i>Pinus sylvestris</i> , Linn.	...	...	3	1	1	1	1	1	1	1	1	1	1	1
<i>Picea excelsa</i> , Link.	...	...	4	1	1	1	x	1	1	1	x	x	x	x
<i>P. nobilis</i> , Loud.	...	...	5	1	1	1	1	1	1	1	1	1	1	1
<i>Larix europaea</i> , DC.	...	...	6	0	1	1	x	0	1	1	x	1	1	1
<i>Abies pectinata</i> , DC.	...	...	7							1	x	x	1	*
HYDROCHARIDACEAE.														
<i>Elodea canadensis</i> , Michx.	...	...	8	1	1	1	1	1	1	1	0	1	1	1
ORCHIDACEAE.														
<i>Listera cordata</i> , Br.	...	...	9	1	1	1	1	1	1	1	1	0	0	*
<i>L. ovata</i> , Br.	...	...	10				x							
<i>Spiranthes spiralis</i> , Koch	...	...	11				x							
<i>Goodyera repens</i> , Br.	...	...	12	1	1	1	*	1	1	1	1	0	*	1
<i>Helleborine atrorubens</i> , Druce	...		13											
<i>Orchis mascula</i> , Linn.	...	...	14		*	*	1	1	1	0				
<i>O. incarnata</i> , Linn.	...	...	15				1							
<i>O. latifolia</i> , Linn.	...	...	16	1	1	1	*	1	1	1	1	0	*	*
<i>O. maculata</i> , Linn.	...	...	17	1	1	1	1	1	1	1	0		*	1
x <i>latifolia</i>	...	...	18											
<i>O. ericetorum</i> , Linton.	...	...	19											
<i>Habenaria conopsea</i> , Benth.	...	...	20	1	*	1	1	1	1	1	0			
<i>H. albida</i> , Br.	...	...	21								0			
<i>H. viridis</i> , Br.	...	...	22	1			1				0			

	Rothiemay.	Cairnie.	Gabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Desikford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.
1			*	x										
2				*	*	*	*							
3	!	x	*	x	x	—	*						x	x
4	!		x	x	x	x	x	—	—	—	x	x	x	x
5														
6	!	x		x	x	x	x	!	!	!	!	x	x	x
7												x		
8												x	x	
9	dry	*	*	*	*	!	!	!	!	!	*	0		Nowhere common.
10		*	*		0		!	!	!	!				Scarce.
11														{ I have seen no specimen of this plant.
12	!	*		!	*	!	!	!	!	!	!	x	0	In fir woods and on moors.
13		0												
14	*		*			!	!	!	!	!	*			
15							!	!	!	!				Scarce.
16		0	x	*	*	!	!	!	!	!	x	x		
17	!	x	*	x	x	*	*	!	!	!	!	!	x	
18		0												
19														{ On Knock Hill—very doubtfully distinct as a species.
20	x		*	!	*		!	!	!	!	!	!	*	
21	dry			*	*		!	!	!	!	x	0		Rare.
22							!	!	!	!	x	0		Rare.

	Bellie.	Rathven.	Oullen.	Fordyce.	Boynie.	Banff.	Gairie.	Avrah.	King Edward.	Turriff.	Forres.	Marnoch.
JUNCACEAE—Contd.												
<i>J. squarrosum</i> , Linn. ...	1	1	1	1	1	1	1	1	0	1	1	—
<i>J. Gerardi</i> , Lois. ...	2	1	1	1	1	1	1	1	1	1	1	—
<i>J. balticus</i> , Willd. ...	3	1										
<i>J. effusus</i> , Linn. ...	4	1	1	1	1	1	1	1	1	1	1	—
<i>J. conglomeratus</i> , Linn. ...	5	1	1	1	1	1	1	1	1	1	1	—
<i>J. maritimus</i> , Linn. ...	6	0					0					
<i>J. bulbosus</i> , Linn. ...	7		1	1	1	1	1	1	0	0	0	—
<i>J. articulatus</i> , Linn. ...	8	1	1	1	1	1	x	1	1	0	1	—
<i>J. sylvaticus</i> , Rich. ...	9	1	1	1	1	1	1	1	1	1	0	—
<i>J. biglumis</i> , Linn. ...	10											
<i>J. triglumis</i> , Linn. ...	11											
<i>Luzula pilosa</i> , Willd. ...	12	1	1	1	x	1	1	0	1	0	0	1
<i>L. sylvatica</i> , Gaud. ...	13	1	1	1	1	1	1	1	1	1	1	—
<i>L. arcuata</i> , Wahl. ...	14											
<i>L. spicata</i> , DC. ...	15											
<i>L. campestris</i> , DC. ...	16		*	*	0	0	0	0	0	0	0	—
<i>L. erecta</i> , Desv. ...	17											1
a. <i>umbellata</i> ...	18	1	1	1	1	1	1	1	0	0	0	—
b. <i>congeeta</i> ...	19	1	1	1	1	1	1	1	1	1	0	—
TYPHACEAE.												
<i>Typha latifolia</i> , Linn. ...	20								dry	0	1	
<i>Sparganium erectum</i> , Linn. ...	21	1	1	1	1	1	1	0	1	1	1	—
<i>S. simplex</i> , Huds. ...	22	1					?		0			
<i>S. affine</i> , Schnizl. ...	23								0		x	

			Beillie.	Rathven.	Cullen.	Fordyce.	Boydrie.	Banff	Gairnie.	Alvah.	King Edward.	Turriff.	Forglen.	Marnoch.
TYPHACEAE— <i>Contd.</i>												0		
S. minimum, Fr.	...	...	1											
ARACEAE.														
<i>Arum maculatum</i> , Linn....	...	...	2	0						1				
LEMNACEAE.														
Lemma minor, Linn.	...	...	3	!		*	!		!	0		*	*	
L. trisulca, Linn.	...	...	4											
ALISMACEAE.														
Alisma Plantago-aquatica, Linn.	...	...	5						!	0	0			
NAIADACEAE.														
Triglochin palustre, Linn.	...	...	6	!	!	!	!	!	!	!	0	*	*	
T. maritimum, Linn....	...	...	7		!	!	!	!	!	!				
Potamogeton natans, Linn.	...	...	8	!	!	!	!	!	0	0	x	0	!	!
P. polygonifolius, Pourr.	...	...	9	!	!	!	!	!	!	!	0	0	0	!
P. alpinus, Balb.	...	...	10								0	0		
P. lanceolatus, Sm.	...	...	11								0			
P. lucens, Linn.	...	...	12								0	0		
P. perfoliatus, Linn.	...	...	13					!	!	0	1	1	1	
P. crispus, Linn.	...	...	14		*	*	*		!	1	0	0	1	
P. pusillus, Linn.	...	...	15		*	*	*			0				
Ruppia rostellata, Koch.	...	...	16						0					
Zostera marina, Linn.	...	...	17						!	!				
CYPERACEAE.														
Eleocharis palustris, Roem. & Schult.	...	...	18	!	!	!	x	!	!	!	0	!	!	!
E. uniglumis, Schultes	...	...	19		x				!					

			Bellie.	Bathven.	Oullen.	Fordycc.	Boydrie.	Banff.	Gairrie.	Alvah	King Edward.	Turriff.	For Glen.	Marnoch.
CYPERACEAE —Contd.														
<i>Scirpus pauciflorus</i> , Ligtf.	...	...	1	!					1					
<i>S. caespitosus</i> , Linn.	...	...	2		—				0	!	0	0	x	—
<i>S. setaceus</i> , Linn.	...	...	3						0			*	*	
<i>S. Tabernaemontani</i> , Gmel.	...	...	4	0	0									
<i>S. sylvaticus</i> , Linn.	...	...	5				!	!	0				1	
<i>S. rufus</i> , Schrad.	...	...	6		x		!	1	0					
<i>Eriophorum vaginatum</i> , Linn.	...	...	7		1				1	1	0	*	*	*
<i>E. angustifolium</i> , Roth.	...	...	8	!	1	x	!	!	1	1	0	0	*	*
<i>Rhynchospora alba</i> , Vahl	...	...	9								0			
<i>Schoenus nigricans</i> , Linn.	...	...	10	!										
<i>Carex dioica</i> , Linn.	...	...	11								0			
<i>C. pulicaris</i> , Linn.	...	...	12	!	1		!	!	!	0	0	0	0	*
<i>C. pauciflora</i> , Lightf.	...	...	13											
<i>C. incurva</i> , Lightf.	...	...	14	!						0				
<i>C. arenaria</i> , Linn.	...	...	15	!	x	1	1	1	1	1				
<i>C. diandra</i> , Schrank	...	...	16											
<i>C. paniculata</i> , Linn.	...	...	17		x									
x <i>remota</i>	...	...	18	0										
<i>C. vulpina</i> , Linn.	...	...	19				??							
<i>C. muricata</i> , Linn.	...	...	20											
<i>C. echinata</i> , Murr.	...	...	21	!	1		1	1	1	1	0	0	1	1
<i>C. remota</i> , Linn.	...	...	22					1					1	
<i>C. curta</i> , Good.	...	...	23	1			1	1	1	1	0		1	
b. <i>alpicola</i> , Wahl.	...	...	24							0				

CYPERACEAE.—*Contd.*

				Bellie.	Rativen.	Oullen.	Fordyce.	Boyndie.	Banff.	Gairrie.	Alvah.	King-Edward.	Turriff.	Forres.	Marnoch.
C. leporina, Linn.	...	...	...	1	!	—	x	—	—	—	—	—	0	!	*
C. atrata, Linn.	...	...	...	2	—	—	—	—	—	—	—	—	—	—	—
C. rigida, Good.	...	...	...	3	—	—	—	—	—	—	—	—	—	—	—
C. aquatilis, Wahl.	...	...	...	4	!	—	—	—	—	—	—	—	0	!	—
C. Goodenowii, Gay	...	...	...	5	!	!	!	!	!	!	!	0	0	!	!
b. juncella, Fr.	...	...	...	6	—	—	—	—	—	—	—	—	—	—	—
C. flaccia, Schreb.	...	...	...	7	!	!	!	!	!	!	!	0	0	!	!
C. rariflora, Sm.	...	...	...	8	—	—	—	—	—	—	—	—	—	—	*
C. pilulifera, Linn.	...	...	...	9	—	—	x	—	—	—	—	—	—	—	—
C. caryophyllea, Latourr.	...	...	...	10	—	—	—	—	—	—	—	0	—	—	—
C. pallescens, Linn.	...	...	...	11	—	—	—	—	—	—	—	—	—	—	—
C. panicea, Linn.	...	...	...	12	!	!	!	!	!	!	!	0	0	!	!
C. capillaris, Linn.	...	...	...	13	—	—	—	—	—	—	—	—	—	—	—
C. pendula, Huds.	...	...	...	14	—	—	—	—	—	0	—	0	—	—	—
C. sylvatica, Huds.	...	...	...	15	—	—	—	—	—	—	—	—	—	—	—
C. helodes, Link.	...	...	...	16	—	—	—	—	*	—	—	—	—	—	—
C. binervis, Sm.	...	...	...	17	!	!	!	!	x	0	!	0	!	!	!
C. distans, Linn.	...	...	...	18	—	—	—	—	—	—	—	—	—	—	—
x extensa	...	...	...	19	—	—	—	—	—	—	—	—	—	—	—
C. fulva, Host.	...	...	...	20	—	—	—	—	—	0	—	0	—	—	—
C. extensa, Good.	...	...	...	21	x	—	—	—	—	0	—	—	—	—	—

	Bellie	Rathven.	Oullen.	Fordyce.	Boydrie.	Banff.	Gairnie.	Alvah.	King-Edward.	Turriff.	Forglens.	Marnoch.
CYPERACEAE — Contd.												
<i>C. flava</i> , Linn.	1	!								0	0	—
× <i>fulva</i>	2											
<i>b. lepidocarpa</i> , (Tausch.)	3											
× <i>fulva</i>	4											
<i>C. Oederi</i> , Retz.	5											
× <i>fulva</i>	6						0					
<i>d. oedocarpa</i> , And.	7											
<i>C. hirta</i> , Linn.	8						0					
<i>C. acutiformis</i> , Ehrh.	9											
<i>C. riparia</i> , Curt.	10		*									
<i>C. inflata</i> , Huds.	11	!					0	1	0	0	1	1
GRAMINEAE.												
<i>Phalaris canariensis</i> , Linn.	12			!	!	!			*			
<i>P. arundinacea</i> , Linn.	13	!	!	!	!	!	!	!	!	!	!	!
<i>Anthoxanthum odoratum</i> , Linn.	14	!	!	!	!	!	!	!	!	!	!	!
<i>Alopecurus geniculatus</i> , Linn.	15	!	!	!	!	!	!	!	!	!	!	!
<i>A. pratensis</i> , Linn.	16	!	!	!	!	!	!	!	!	!	!	!
<i>Milium effusum</i> , Linn.	17				0							
<i>Phleum pratense</i> , Linn.	18	!	x									
<i>b. nodosum</i> , (Linn.)...	19								0	0	0	0
<i>P. arenarium</i> , Linn.	20						0					
<i>Agrostis canina</i> , Linn.	21	*	*				0	0	0	0	x	

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	King-Edward.	Turriff.	Forres.	Marnoch.
GRAMINEAE —Contd.											
A. alba, Linn.	...	1	—	x	—	*	—	0	1	0	x
b. stolonifera, (Linn.)	...	2	—	x	—	*	—	0	0	0	—
d. coarctata, (Hoffm.)	...	3	—	—	—	—	—	—	—	—	—
A. tenuis, Sibth.	...	4	!	!	!	!	!	!	!	!	x
b. pumila, (Linn.)	...	5	—	—	—	—	x	—	0	0	—
Ammophila arenaria, Link.	...	6	!	x	—	—	—	—	—	—	—
Aira caryophyllea, Linn.	...	7	!	!	!	!	!	—	—	—	—
A. praecox, Linn.	...	8	!	!	!	!	!	—	—	—	—
Deschampsia caespitosa, Beauv.	...	9	!	—	—	—	—	—	—	—	—
D. alpina, Roem. & Schult.	...	10	—	—	—	—	—	—	—	—	—
D. flexuosa, Trin.	...	11	!	!	!	!	!	—	—	—	—
Holcus mollis, Linn.	...	12	—	x	x	—	—	—	0	—	x
H. lanatus, Linn.	...	13	!	!	!	!	!	—	—	—	—
Trisetum flavescens, Beauv.	...	14	—	—	—	—	—	—	—	—	—
Avena pubescens, Huds.	...	15	—	—	—	—	—	1	—	—	—
A. pratensis, Linn.	...	16	—	0	x	—	—	—	—	—	—
b. alpina, (Sm.)	...	17	—	—	—	—	—	—	—	—	—
c. longifolia, (Parn.)	...	18	—	—	—	—	—	—	—	—	—
A. strigosa, Schreb.	...	19	—	*	—	*	—	0	0	0	—
A. fatua, Linn.	...	20	—	*	—	*	—	—	—	—	—
A. sativa, Linn.	...	21	—	*	—	*	—	—	—	—	—
Arrhenatherum elatius, Mert. & Koch	...	22	—	—	—	—	—	—	—	—	—
b. bulbosum, Presl.	...	23	!	—	—	—	—	—	—	—	—
Sieglungia decumbens, Bernh.	...	24	—	—	—	—	—	0	0	0	—

	Rothesmay.	Cairnie	Oabreach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Desktord.	Ordinghill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1	x	x	dry	x	x	*	x	-	-	-	-	x	x	x	Frequent.
2	dry			0											
3															
4	!	x	dry	x	x	x	*	x	!	x	!	x	x	x	Common.
5	!	x	0	x	x	x	x	x	!	!	!	x	x	x	
6															Coast.
7	!	x		x	x	!	x	!	!	!	!	x	x	x	Common.
8	dry	x		x	x	!	*	!	!	!	!			x	Common.
9	!	x	*	x	x	!	*	!	!	!	!	!	x	x	Common.
10			0												
11	!	x	dry	x	x	!	*	!	!	!	!	!	x	x	Common.
12	*	x	dry	x	x	*	*	x	!	x	!	x	x	x	Not so common as next.
13	!	x	dry	x	x	!	*	!	!	!	!	!	x	x	
14														x	
15				*					!					0	Rare.
16	*	x	dry	x	*									0	
17				0											
18				0											
19	x				x				!	x	x	x			
20				*					!	0	*				
21	*														
22	*														
23	!	x	*	x	x	!	*	!	!	!	!	x	x	x	Common.
24	!	x	dry	x	x	x	*	!	!	!	!	x	x	x	

GRAMINEAE - Contd.

	Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Glamrie.	Alvah.	King-Edward. <small>(1772)</small>	Turriff.	Forres.	Marnoch.	Invereskie.
<i>Phragmites communis</i> , Trin.	1				!			0					
<i>Cynosurus cristatus</i> , Linn.	2	!	!	!	!	!	!	!	!	!	!	!	!
<i>Koeleria gracilis</i> , Pers.	3	!	x	x	!	!	!	0					
<i>c. britannica</i> , Domin	4												
<i>Molinia caerulea</i> , Moench.	5	!	!	!	x	!	!	0		0			
<i>b. depauperata</i> , (Lindl.)	6												
<i>Catabrosa aquatica</i> , Beauv.	7					!							
<i>Melica nutans</i> , Linn.	8												
<i>Dactylis glomerata</i> , Linn.	9	!	!	!	!	!	!	!	!	!	!	!	!
<i>Briza media</i> , Linn.	10				!	!		0					
<i>Poa annua</i> , Linn.	11	!	!	!	!	!	!	!	!	!	!	!	!
<i>P. alpina</i> , Linn.	12												
<i>P. nemoralis</i> , Linn.	13							0		x			
<i>d. divaricata</i> , Syme	14												
<i>P. compressa</i> , Linn.	15												
<i>P. pratensis</i> , Linn.	16	!	!	!	!	!	!	0	!	!	!	!	!
<i>P. trivialis</i> , Linn.	17	!						0	0	!	!	!	!
<i>Glyceria fluitans</i> , Br.	18	!	!	!	!	!	!	!	!	!	!	!	!
<i>G. plicata</i> , Fr.	19												
<i>G. aquatica</i> , Wahlb.	20						!	0	0	0	0	0	0
<i>G. maritima</i> , Mert. & Koch.	21		!	!	!								
<i>G. declinata</i> , Bréb.	22												
<i>Festuca bromoides</i> , Linn.	23	!				!	!	*		0			
<i>F. ovina</i> , Linn.	24	!	!	!	!	!	!	!	0	!	!	!	x

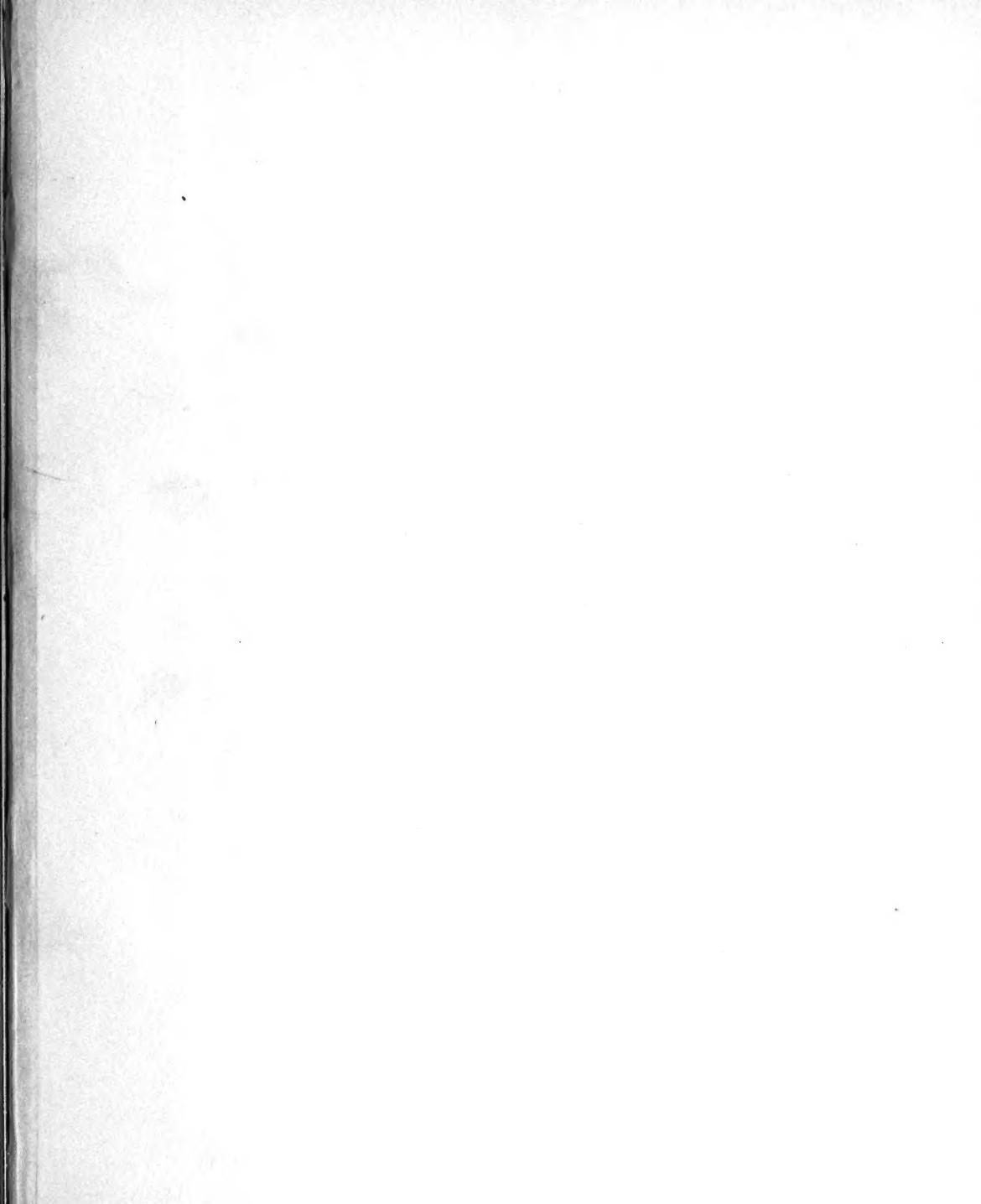
	Rothiemay.	Cairnie.	Gabraish.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Bohart.	Deskford.	Ordiquhill.	Orange.	Keith.	Botriphnie.	Mortlach.	
1	x														Rare.
2	!	x	*	x	x	!	*	!	!	!	!	!	x	x	Very common.
3										0			0		
4		0													
5	*	x	x	x	x	*	!	!	!	!	!	!	x	x	Locally common.
6	x														
7															
8		0			?						0				
9	!	x	x	x	x	!	*	!	!	!	!	!	x	x	Very common.
10	!	x	dry	x	*	*	*	*	x	!	!	!	x	*	Locally common.
11	!	x	x	x	x	!	*	!	!	!	!	!	x	x	Very common.
12		0													
13	*		x	*	x	x	x						x		
14		0													
15							!								
16	!	x	*	x	x	!	*	!	!	!	!	!	x	x	Frequent.
17	!	x	*	x	x	*	x	!	!	!	x	x	x	x	Frequent.
18	!	x	*	x	x	x	*	!	!	!	!	!	x	x	Common.
19															Very rare.
20	*														By Deveron.
21															Coast—frequent.
22		0													
23				*				!	!	!	!	!	x	x	
24	!	x	*	x	x	*	x	!	!	!	!	!	x	x	Common.

	Bothiemay.	Cairnie.	Gabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1	x	x	x	x	x	x		x	!	!	!	x	x		<i>f. vivipera</i> also occurs.
2															
3											0				
4	*					*	*								
5	*	x			*	*	x		x		x	x	x	0	
6															
7	x				*				1		0				Rare.
8	*										x		x		
9														0	
10							x							0	
11	x										*	x			
12	!		*	*	*	!	*	!	!	!	!	x		x	Common— <i>f. pumila</i> also occurs.
13	*		x	x	*	*	x	!			0	x	x		Local.
14	!	x	*	x	x	!	*	!	!	!	!	x	x		Very common.
15	*	x				!	*	!	1	1	!	1		x	Common.
16															
17		0		*	*			!					x		Rare.
18	!	x	*	x	*	!	*	!	!	!	!	!	x	x	Very common.
19	x	x	x	x					!		x	x			Common.
20															Coast.
21															Coast—rare.
22	!	x	*	x	x	!	x	!	!	!	!	x	x	x	
23	*														"Only one specimen."

		Bellie.	Bathven.	Cullen.	Fordyce.	Eyndie.	Banff.	Gairrie.	Alvah.	King-Edward.	Turriff.	Forres.	Marmoch.	Inverkeithing.
GRAMINEAE — Contd.														
<i>Elymus arenarius</i> , Linn.	...	1				??								
FILICES.														
<i>Pteris aquilina</i> , Linn.	...	2	!	!	!	!	!	!	!	!	!	!	!	!
<i>Blechnum Spicant</i> , With.	...	3	!	!	!	!	!	!	!	!	!	!	!	!
<i>Asplenium Adiantum-nigrum</i> , Linn....	4					0		!	0	!				
var. <i>serpentinum</i>	...	5												
<i>A. marinum</i> , Linn.	...	6		!										
<i>A. viride</i> , Huds.	...	7												
<i>A. Trichomanes</i> , Linn.	...	8						0						
<i>A. Ruta-muraria</i> , Linn.	...	9							!					
<i>Athyrium Filix-femina</i> , Roth.	...	10			!	x	!	!	!	!	0	!	!	!
<i>Phyllitis Scolopendrium</i> , Newm.	...	11						0			0			
<i>Cystopteris fragilis</i> , Bernh.	...	12						0	0		0			
b. <i>dentata</i> , Hook.	...	13												
<i>Polystichum lobatum</i> , Presl.	...	14						0			0			
<i>P. Lonchitis</i> , Roth.	...	15												
<i>Lastrea montana</i> , T. Moore	...	16							*					
<i>L. Filx-mas</i> , Presl.	...	17	!	!	!	!	!	!	!	!	!	!	!	!
<i>L. spinulosa</i> , Presl.	...	18												
<i>L. aristata</i> , Rendle & Britten	...	19	!	!	!	!	!	!	!	!	!	!	!	!
<i>Polypodium vulgare</i> , Linn.	...	20	!	!	x	!	!	!	!	!	0	*	!	!
<i>Phegopteris Dryopteris</i> , Fée	...	21	!					0	!		0			
<i>P. polypodioides</i> , Fée	...	22						0	0	0				
<i>Ophioglossum vulgatum</i> , Linn.	...	23						0						

	Bothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiqhull.	Grange.	Keith.	Botriphnie.	Mortlach.	
1			dry			*							0		Rare.
2	!	x	*	x	*	!	*		!				x	x	Very common.
3	!	x	*	x	*	!	*		!				x	x	Common.
4	!	x	*	x	*	!	*	!	!				x	x	Locally common.
5	x	*	*	x	*	*	*		!				x	x	Common.
6											x				With type—frequent.
7		dry									!				Rare.
8	x	x	dry	x	*	*		!		!	*		x		
9			0		0										
10	x	x	dry	x	*	*	x	!	!	!	!		x		
11	x	dry	x		*	*	x	!	!	!	!		x		
12			0		x			!	!	!	!				
13	x	x	x	x	x			!	!	!	!		x		Local.
14															Rare.
15	x	*									x	x			Rare.
16			0								x				Rare.
17											x				Rare.







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